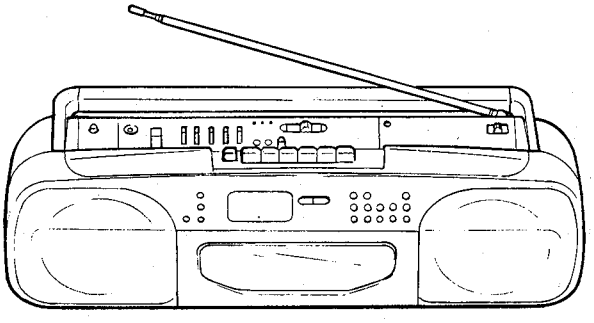
CFS-203L

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	CFS-202L
Tape Transport Mechanism Type	MF-202-78D

SPECIFICATIONS

Tuner frequency range

Sales area	FM	MW	LW	SW
AEP, WG model	87.6-107MHz	531-1,602kHz	153-281kHz	SW1 5.85- 6.35MHz SW2 7.00- 7.50MHz SW3 9.40- 9.90MHz SW4 11.60-12.10MHz SW5 15.10-15.60MHz
IT model	87.5-108MHz	531-1602kHz	153-281kHz	SW6 17.55-18.05MHz SW7 21.40-21.90MHz

	FM	MW, LW, SW
Intermediate frequency	10.7MHz	10.7MHz/450kHz

Frequency response 80 – 8000Hz
Speakers 10cm (4in.) dia. full range × 2
Output Headphones jack (stereo mini-jack) for 16 – 68 ohm impedance headphones
Maximum power output
4.6W (2.3W + 2.3W)
Power requirements 220V AC, 50Hz
9V DC, six R20 (size D) batteries
Power consumption 14W

Battery life

Batteries	FM recording
Sony SUM-1 (NS)	Approx. 10 hours
Sony AM-1 alkaline	Approx. 15 hours

1 year for clock/tuner with two R6.

Dimensions Approx. 480 × 147 × 148 mm (W/H/D)
(Approx. 19 × 5⅞ × 5⅞ inches)
incl. projecting parts and controls
Weight Approx. 3.3 kg (7lb 4oz)
incl. batteries
Accessories supplied
AC power cord

Design and specifications subject to change without notice.

WG: West Germany model
IT : Italian model

MICROFILM

RADIO CASSETTE-CORDER

SONY®

SERVICING NOTE

• Repairing printed resistor

Cut both sides of the resistor and solder the carbon resistor having same value in place of printed one of the conductor side.

1/4W carbon resistor is supplied for the replacing part of the printed resistor.

• Note for tape operation buttons

When replacing tape operation buttons. cut them off and attach new parts with locking compound.

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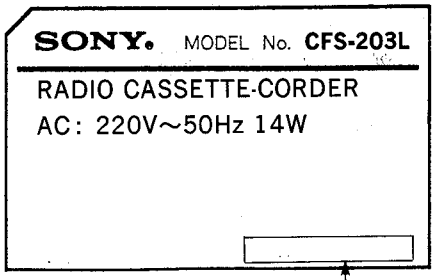
MODEL IDENTIFICATION

—Model Number Labal—



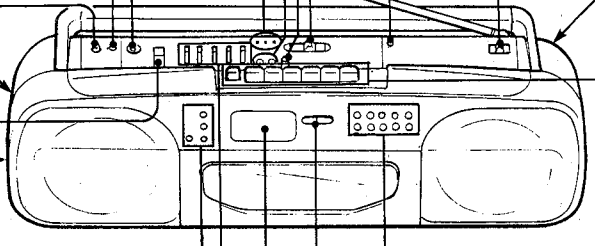
AEP, IT model: 3-352-357-01
WG model: 3-352-358-01

WG: West Germany model
IT : Italian model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL



OPR/BATT (operation/battery) indicator

Tape transport direction indicators

When the power is turned on, FWD ◀ indicator lights up. During playback on deck A. the indicators show the tape transport direction.
◀ FWD : The front side on deck A is played back.
▶ REV : The reverse side on deck A is played back.

MIC (microphone)

Telescopic antenna

PHONES (headphones) jack

TIMER indicator

TIMER button

FM MODE/ISS selector (rear)

VOLUME control

AC IN (AC power input) jack

TIMER button
SLEEP button
CLOCK button
STANDBY button

Graphic equalizer controls

100Hz : Boosts or cuts the bass.
400Hz : Adjusts the middle frequency range such as a human voice and the middle frequencies of instrumental music.
1kHz : Provides more presence of vocals.
4kHz : Adjusts the brightness of sound.
10kHz : Effects general treble. To reduce high frequency noise such as tape hiss, slide toward −10

REC MUTE button

FUNCTION selector CD, RADIO, DUBBING, TAPE/RADIO OFF

FM STEREO indicator

SENS (sensitivity) (DX/LOCAL) selector

EXT ANT (external antenna) terminal (rear) (AEP model except WG and IT model)

Tape operation buttons

■ STOP/EJECT
● REC
◀ PLAY
▶▶ REW/REVIEW
◀◀ FF/CUE
II PAUSE
◀II▶ DIRECTION selector

FM SW MW LW MEMORY
1 2 3 4 5

SCAN/TIME SET (−, +) buttons

clock display

SECTION 2
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
6. Power supply voltage: 9V dc.

Torque Measurement

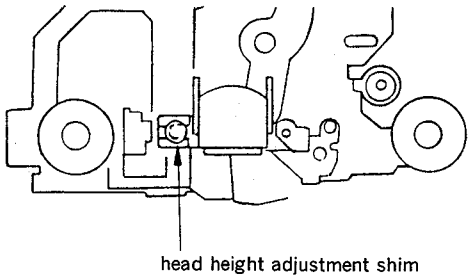
Torque	Torque Meter	Meter Reading
FWD	CQ-102C	24—70g•cm (0.33—0.97oz•inch)
FWD Back Tension	CQ-102C	2—6g•cm (0.028—0.083oz•inch)
REV	CQ-102RC	24—70g•cm (0.33—0.97oz•inch)
REV Back Tension	CQ-102RC	2—6g•cm (0.028—0.083oz•inch)
FF	CQ-201B	more than 85g•cm (more than 1.18 oz•inch)
REW	CQ-201B	85—150g•cm (1.18—2.08oz•inch)

Tape Tension Measurement

Mode	Tension meter	Meter Reading
FWD	CQ-403A	more than 110g (more than 3.88 oz)
REV	CQ-403R	

Tape Path Adjustment

When the mode is playback (FWD, REV), run a mirror cassette, than turn adjustment screw to eliminate tape curl and tape twist at tape guide on erase head and record/playback head.
Adjust the height by using head shim if needed.
Standard (t: 0.1)



Part No.	t
3-578-138-01	0.1
3-578-138-11	0.2

SECTION 3
ELECTRICAL ADJUSTMENTS

3-1. TAPE RECORDER SECTION

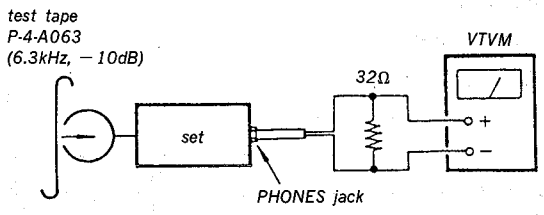
• Test Tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment
P-4-A063	6.3kHz, −10dB	head azimuth adjustment

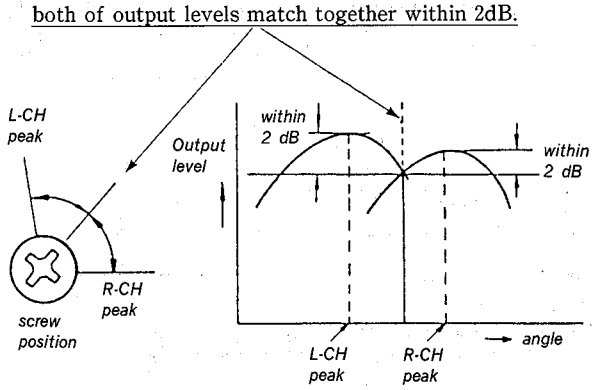
REC/PB Head Azimuth Adjustment

Procedure:

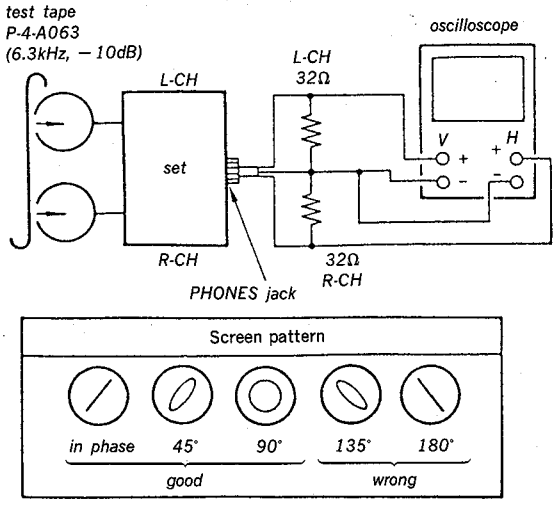
1. Mode: playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match. turn the adjustment screw until both of output levels match together within 2dB.

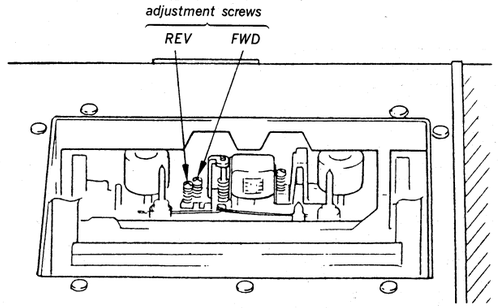


3. Phase Check
   Mode: playback



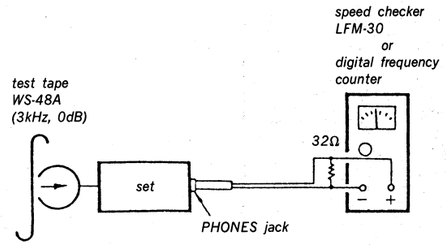
Note: Finish the screw adjustment with a turn in the clockwise direction.
After the adjustment, lock the adjustment screw.

Adjustment Location :



Tape Speed Adjustment

Procedure :
Mode : playback

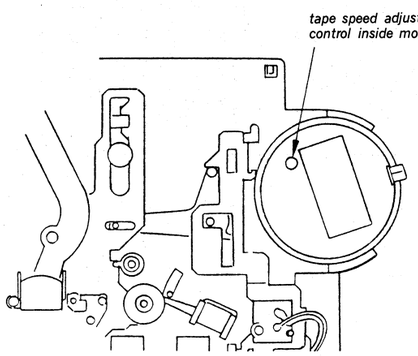


Adjustment Value :

Speed checker	Digital frequency counter
−2.5 to +1.5%	2,925 to 3,045Hz

Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

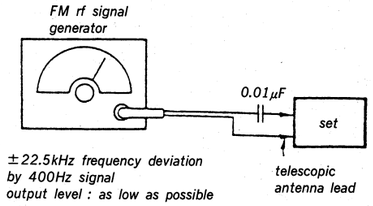
Adjustment Location :



3-2. RADIO SECTION

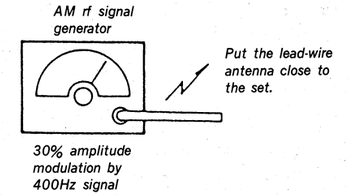
• FM Section

Setting :
BAND selection button : FM

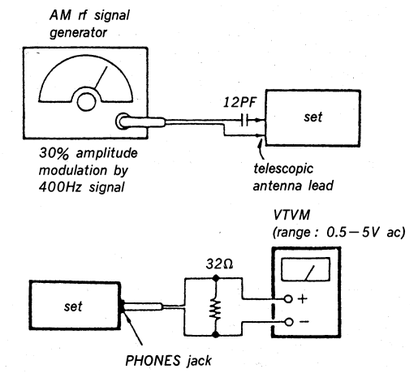


• AM Section

Setting :
BAND selection button : MW/LW



BAND selection button : SW



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT		
Adjust for specifications on digital voltmeter at the both end of CNP22.		
L2	108MHz	9.5±0.1V
(adjustment free)	87.5MHz	3.7±0.2V (check)

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L1	92MHz

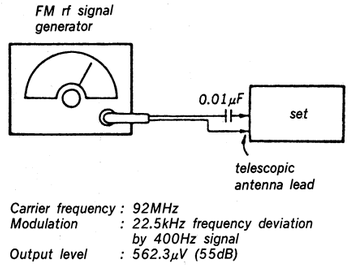
AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1, T3	450kHz

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjust for specifications on digital voltmeter at the both end of CNP22.		
L17	153kHz (LW)	1.5±0.1V
(adjustment free)	21.9MHz (SW)	8.5±0.2V (check)

FM NULL Adjustment

Setting :
BAND selection button : FM

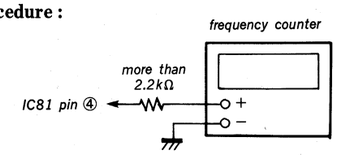
Procedure :



1. Turn the set to 92MHz.
2. Adjust T2 for 0V reading on the VOM.
   Note : When the ceramic filter is replaced, these adjustments should be made.

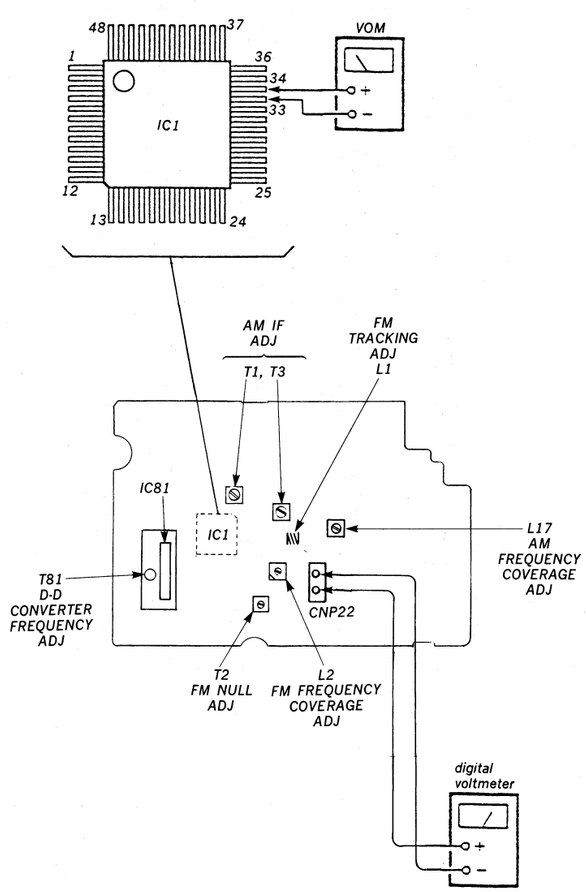
D-D Converter Frequency Adjustment

Procedure :



1. Adjust T81 to gain the value of 2.8MHz±20kHz at frequency counter.
   Note : Adjust with shield case attached.

Adjustment Location : tuner board



SECTION 4
DIAGRAMS

4-1. PRINTED WIRING BOARDS — TUNER SECTION —

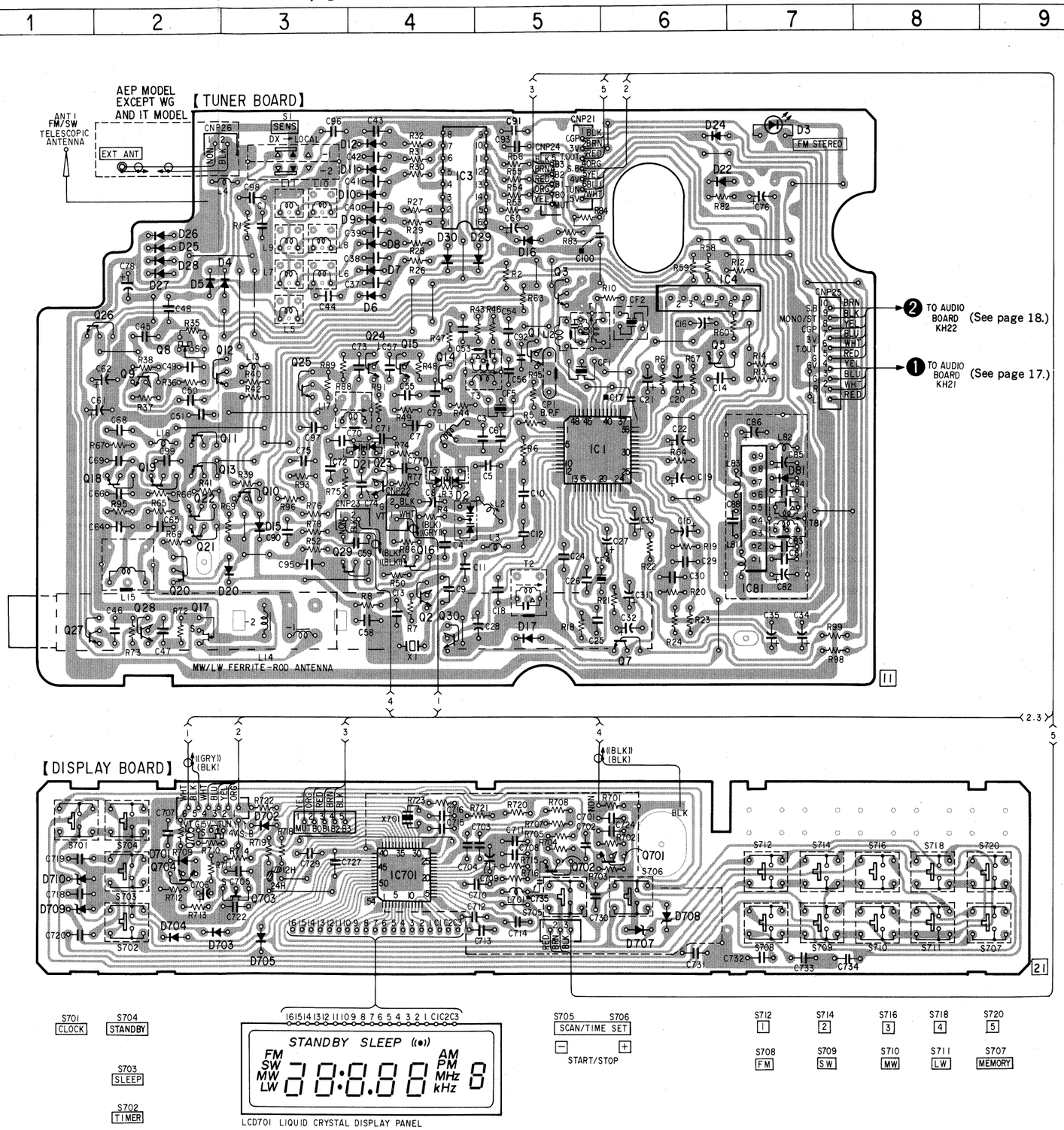
• See page 9 for semiconductor lead layouts.

• **Semiconductor Location**

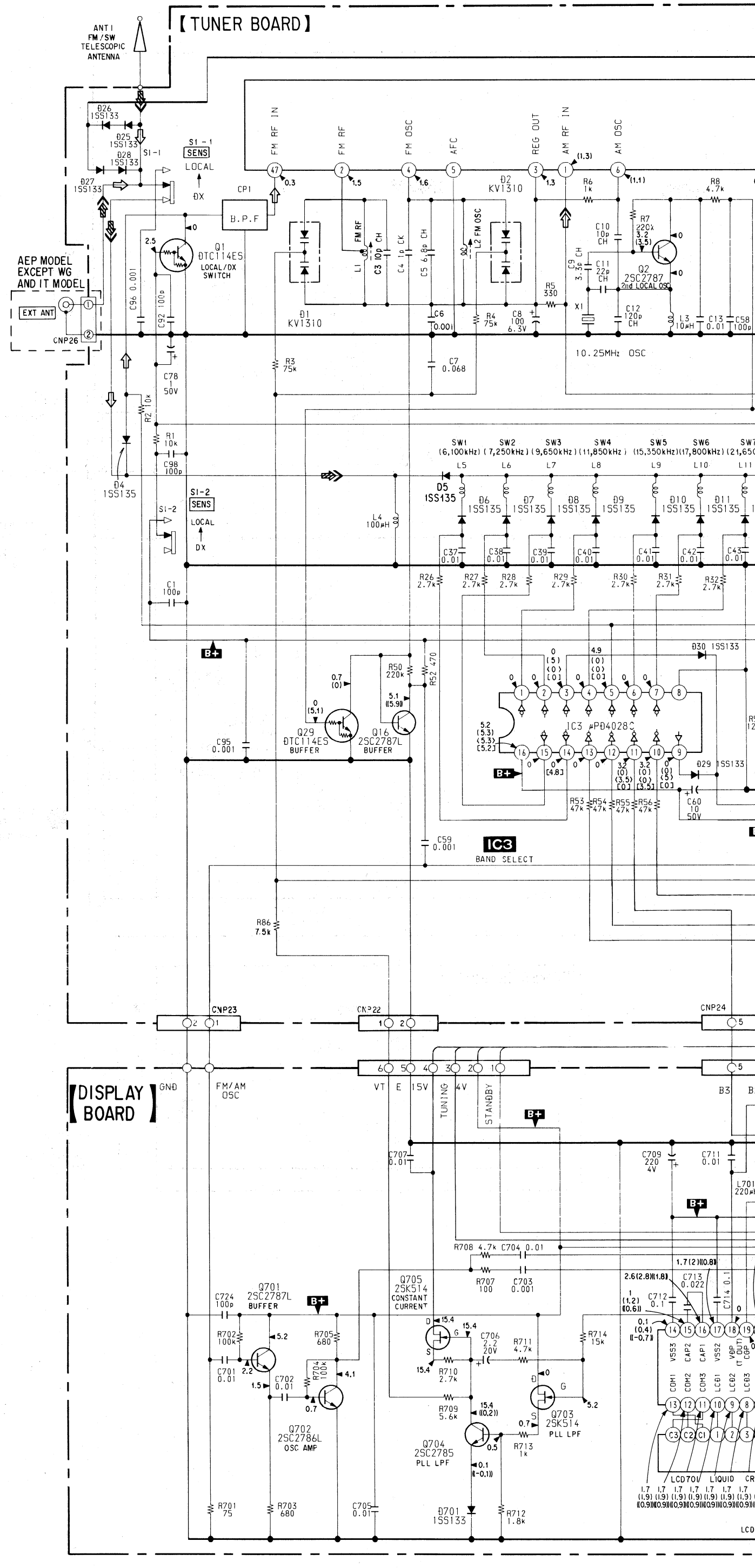
Ref. No.	Location	Ref. No.	Location
D1	D-4	Q1	C-5
D2	D-4	Q2	E-4
D3	A-7	Q3	B-5
D4	B-2	Q5	C-6
D5	B-2	Q7	E-6
D6	C-4	Q8	C-2
D7	B-4	Q9	C-2
D8	B-4	Q10	D-3
D9	B-4	Q11	D-2
D10	B-4	Q12	C-2
D11	B-4	Q13	D-2
D12	A-4	Q14	C-4
D15	D-3	Q15	C-4
D16	B-5	Q16	E-4
D17	E-5	Q17	E-2
D20	E-3	Q18	D-2
D21	D-4	Q19	D-2
D22	B-6	Q20	E-2
D24	A-6	Q21	D-2
D25	B-2	Q22	D-2
D26	B-2	Q23	D-4
D27	B-2	Q24	C-4
D28	B-2	Q25	C-3
D29	B-5	Q26	C-2
D30	B-4	Q27	E-1
D81	D-7	Q28	E-2
D701	G-2	Q29	E-4
D702	G-3	Q30	E-4
D703	H-2	Q701	G-6
D704	H-2	Q702	G-5
D705	H-3	Q703	G-3
D707	H-6	Q704	G-2
D708	H-6	Q705	G-2
D709	G-1		
D710	G-1		
IC1	D-5		
IC3	B-4		
IC4	C-6		
IC81	E-7		
IC701	G-4		

Note:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- [ ]→ indicates side identified with part number.

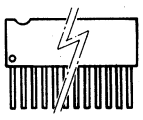


4-3. SCHEMATIC DIAGRAMS — TUNER SECTION —



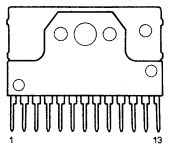
4-2. SEMICONDUCTOR LEAD LAYOUTS

BA3420AL

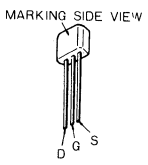


2SK193

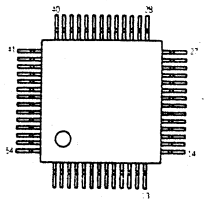
LA4597



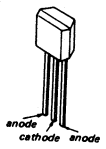
2SK514



μPD1715G-568-22

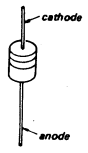


KV1260
KV1310A-2



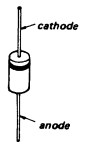
DTC114ES
DTC143TS
RN1207

RD3.6ES-B1
RD6.8ES-B2
1SS119
1SS168

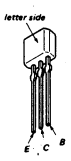


2SA952
2SC1815-GR

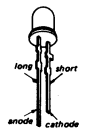
10E2



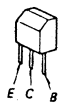
DTC114TS
2SA1175-HFE
2SC2785-HFE
2SC2786-L
2SC2787



SLR-34VR70F130



2SD773



IC1

FM/AM FRONT-END, IF AMP, STEREO DEMODULATOR

IC1 CX20029

AM RF IN | AM OSC | FM/AM FE OUT | FM IF IN | AM IF IN | VCC | TUNING LED | BAND SELECT | MUTE CONT | GND | NC | NC | GND | DISCRI | RIPPLE FILTER | ST LED | AFC/AGC | AFC/AGC | DET OUT | MPX IN | LPF | VCO | VCO | VCO | REG | MUTE T | MUTE WIDTH | LCH OUT | RCH OUT | LPF | LPF | LPF

10.25MHz OSC

2nd LOCAL OSC

2nd IF

FM STEREO

BAND SWITCH

MUTING SWITCH

MUTING

STEREO/MONO SWITCH

SW BAND SWITCH

SW, AGC

RF AMP

BUFFER

MIX AMP

1st IF T3

1st LOCAL OSC

AM,BAND SWITCH

LW/MW,RF SWITCH

LOCAL/DX SWITCH

AGC

LW-MW FERRITE -ROD ANTENNA

AM OSC

AM BAND SWITCH

IC4 μPA76HA

AFC/AGC

IC3 μPD4028C

SW3 (10,850kHz) SW4 (11,850kHz) SW5 (15,350kHz) SW6 (17,800kHz) SW7 (21,650kHz)

CNP24 | CNP21

15V | TUNING | 4V | STANDBY

B3 | B2 | B1 | B0 | MUTE | TIMER OUT | 3V | CGP

IC701 μPD1715G-568-22

LCD701 LIQUID CRYSTAL DISPLAY PANEL

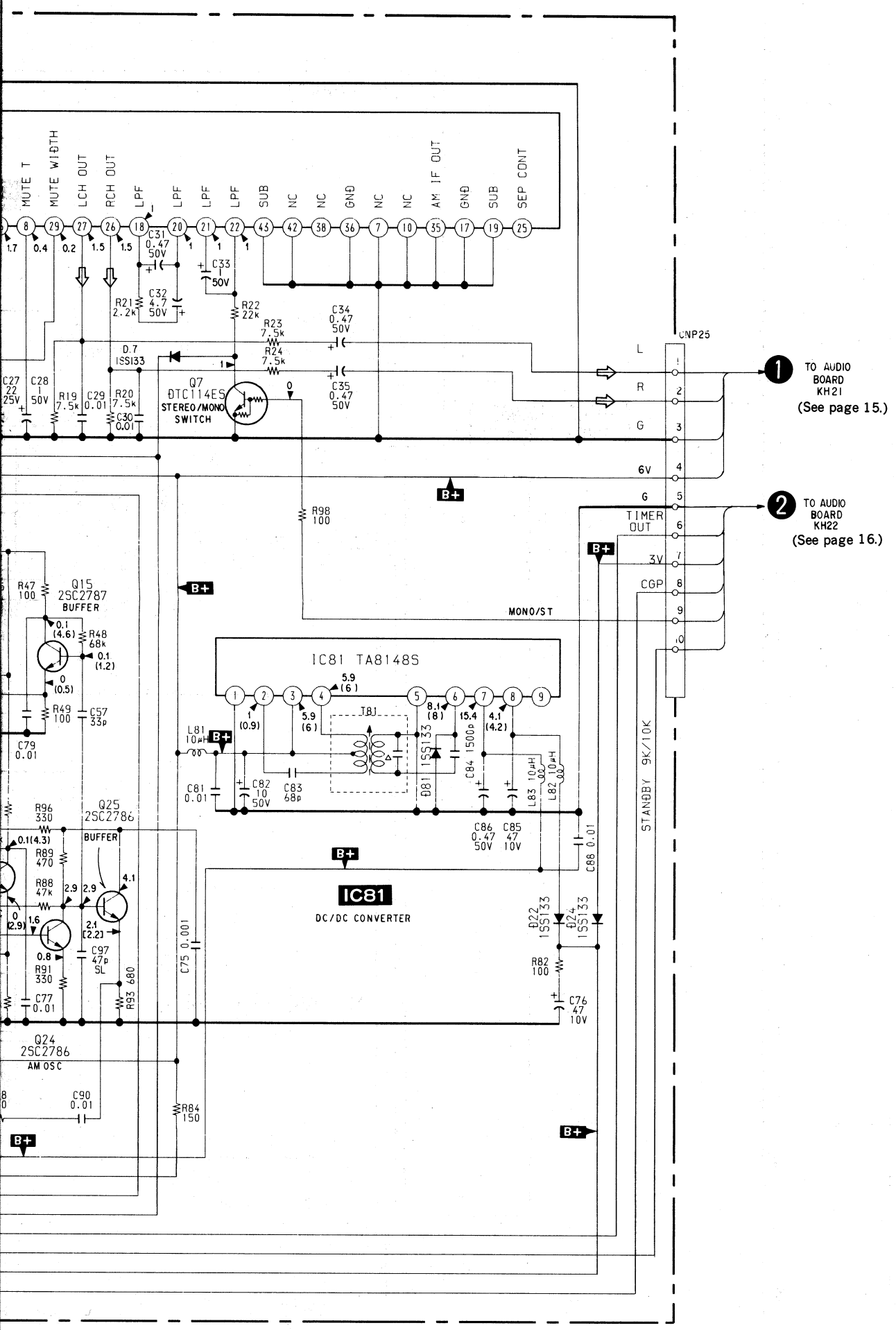
IC701 LCD DRIVE, CONTROLLER PLL SYNTHESIZER

S709 SW | S711 LW | S710 MW | S708 FM

S701 CLOCK | S702 TIMER | S706 + | S705 − | SCAN/TIMER SET

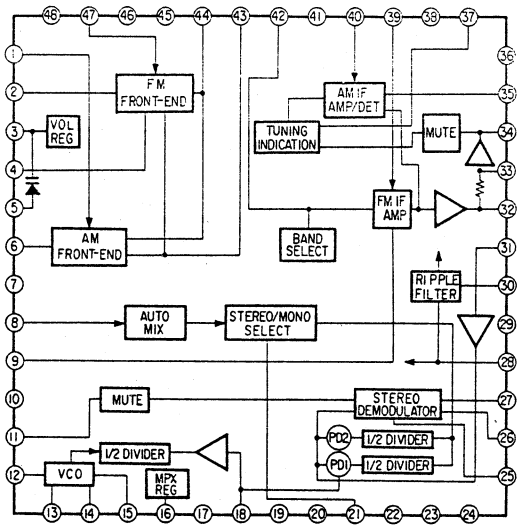
S704 STANDBY | S703 SLEEP | S720 5 | S718 4

S707 MEMORY | S716 3 | S714 2 | S712 1

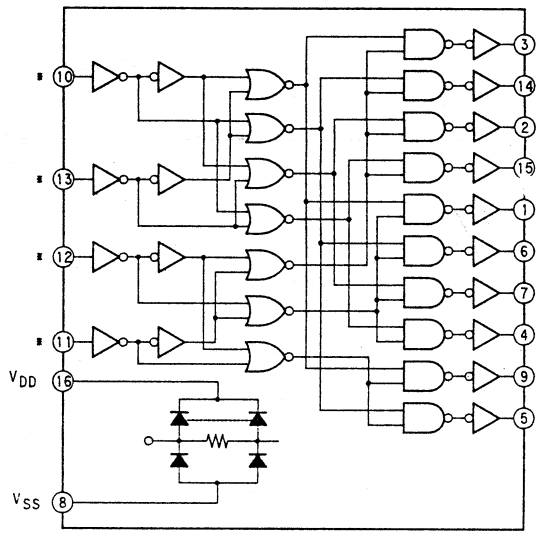


● IC Block Diagrams

IC1 CX20029

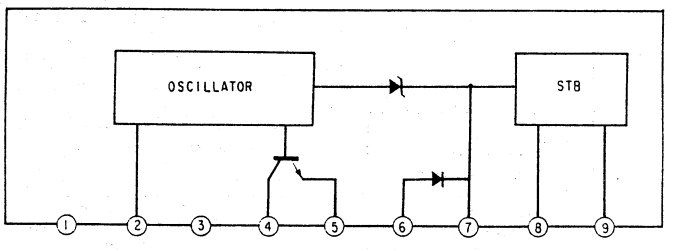


IC3 μPD4028C



* ALL INPUTS ARE PROTECTED BY COS/MOS PROTECTION NETWORK.

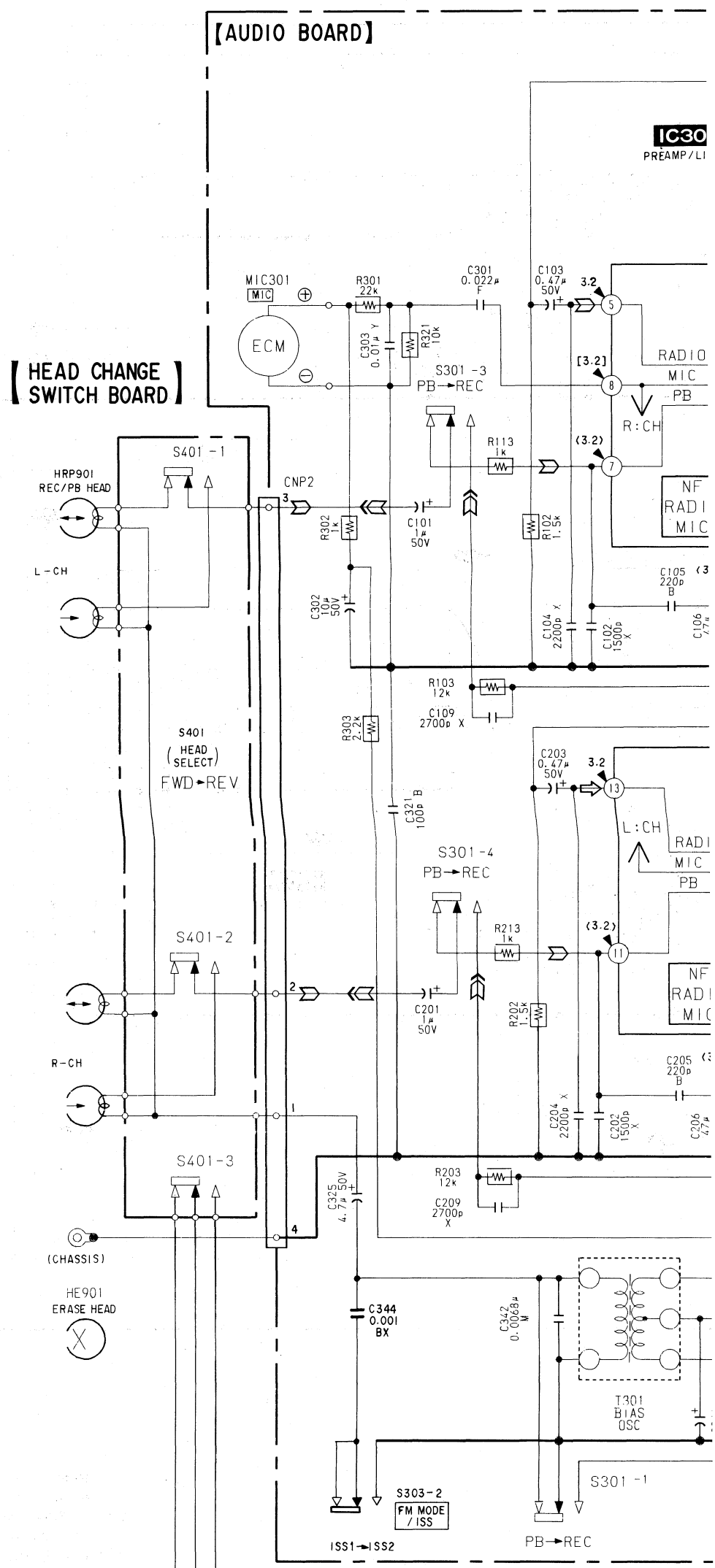
IC81 TA8148S



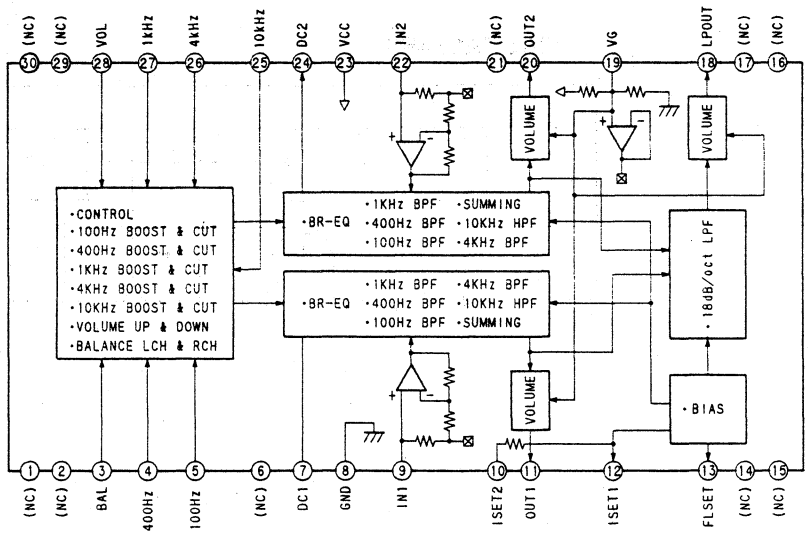
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : LW
  < > : MW
  [ ] : SW
  (( )) : RADIO OFF
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ⇨ : MW
  ⇨ : LW
  ⇨ : SW

4-4. SCHEMATIC DIAGRAMS —AUDIO SECTION —



● **IC Block Diagram**
IC303 CXA1351S


(NC) (NC) VOL 1KHz 4KHz 10KHz DC2 VCC IN2 (NC) OUT2 VG LPOUT (NC) (NC)
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16
·CONTROL
·100Hz BOOST & CUT
·400Hz BOOST & CUT
·1KHz BOOST & CUT
·4KHz BOOST & CUT
·10KHz BOOST & CUT
·VOLUME UP & DOWN
·BALANCE LCH & RCH
·BR-EQ
·1KHz BPF ·SUMMING
·400Hz BPF ·10KHz HPF
·100Hz BPF ·4KHz BPF
·BR-EQ
·1KHz BPF ·4KHz BPF
·400Hz BPF ·10KHz HPF
·100Hz BPF ·SUMMING
VOLUME
VOLUME
VOLUME
·18dB/oct LPF
·BIAS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
(NC) (NC) BAL 400Hz 100Hz (NC) DC1 GND IN1 ISET2 OUT1 ISET1 FLSET (NC) (NC)

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- ⊣W⊢ : printed resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Power voltage is dc 9V and fed with regulated dc power supply from battery terminal.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : FM
  < > : PB
  [ ] : REC
  ▶ : FWD ◀ : REV
  ▶▶ : FF ◀◀ : REW
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  Σ : PB
  Σ» : REC

CTION —

BOARD】

(See page 12.)

TO TUNER BOARD
CNP25

CNP2

IC301
PREAMP/LINE AMP

IC301(1/2)
BA3420AL

IC301(1/2)
BA3420AL

IC303
GEQ

IC303
CXA1351S

Q101,201
MUTING

Q101
DTC143TS

Q201
DTC143TS

Q303
6V REG

Q301
BIAS OSC

Q302
BIAS SWITCH

S301 -2
PB→REC

S301 -3
PB→REC

S301 -4
PB→REC

S301 -1
PB→REC

S303-2
FM MODE / ISS
ISS1→ISS2

RVB301 VOL.BLOCK
100Hz | 400Hz | 1kHz | 4kHz | 10kHz | VOLUME

RADIO
CG
MUTE +B
+9V, STAND BY
+9V, VCC
+6V

CNP3

D302
MTZJ-6.8B

【LEAF SW BOARD】

S604
DIR MODE

KH3

S601
POWER

S602
FF/REW

S603
REV

M901
MOTOR

PM901
DIR

【PLUNGER BOARD】

Q601
SWITCHING

Q602
SWITCH NG

Q603
PM DRIVE

RVB301 VOL.BLOCK
-1 100Hz -2 400Hz -3 1kHz -4 4kHz -5 10kHz -6 VOLUME

IC303
GEQ
IC303
CXA1351S

IC302
POWER AMP
IC302
LA4597

J301
PHONES

SP901
SPEAKER
L-CH

SP902
SPEAKER
R-CH

CNP4

DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
2PCS,3V
(BACK UP)

S302
FUNCTION

S352
TIMER
OFF→ON

S302-2
TAPE→RADIO

S302-1
TAPE→RADIO

RADIO
CG
MUTE +B
+9V, STAND BY
+9V, VCC
+6V

Q303
6V REG

Q351
2SA952L

Q352
DTC114YS

Q201
DTC143TS

D353
SLR-34VR
TIMER

S303-1
FM MODE
/ ISS

STEREO
↓
MONO

Q353
2SC1740S

TIMER ON:0

TIMER ON:9

TIMER 2

KH22

TO TUNER BOARD
CNP25
(See page 12.)

D302
MTZJ-6.8B

Q351-353
SWITCH

CNP3

CNJ1

S604
DIR MODE

KH3

D606
LR-34VR
(REV)

S601
POWER

Q601
2SA933S

M901
MOTOR

S603
REV

S602
FF/REW

PLUNGER
BOARD

PM901
DIR

Q603
2SD467

Q601
SWITCHING

Q603
PM DRIVE

[POWER BOARD]

CNP1

F801
T1.25A

T801
POWER TRANSFORMER

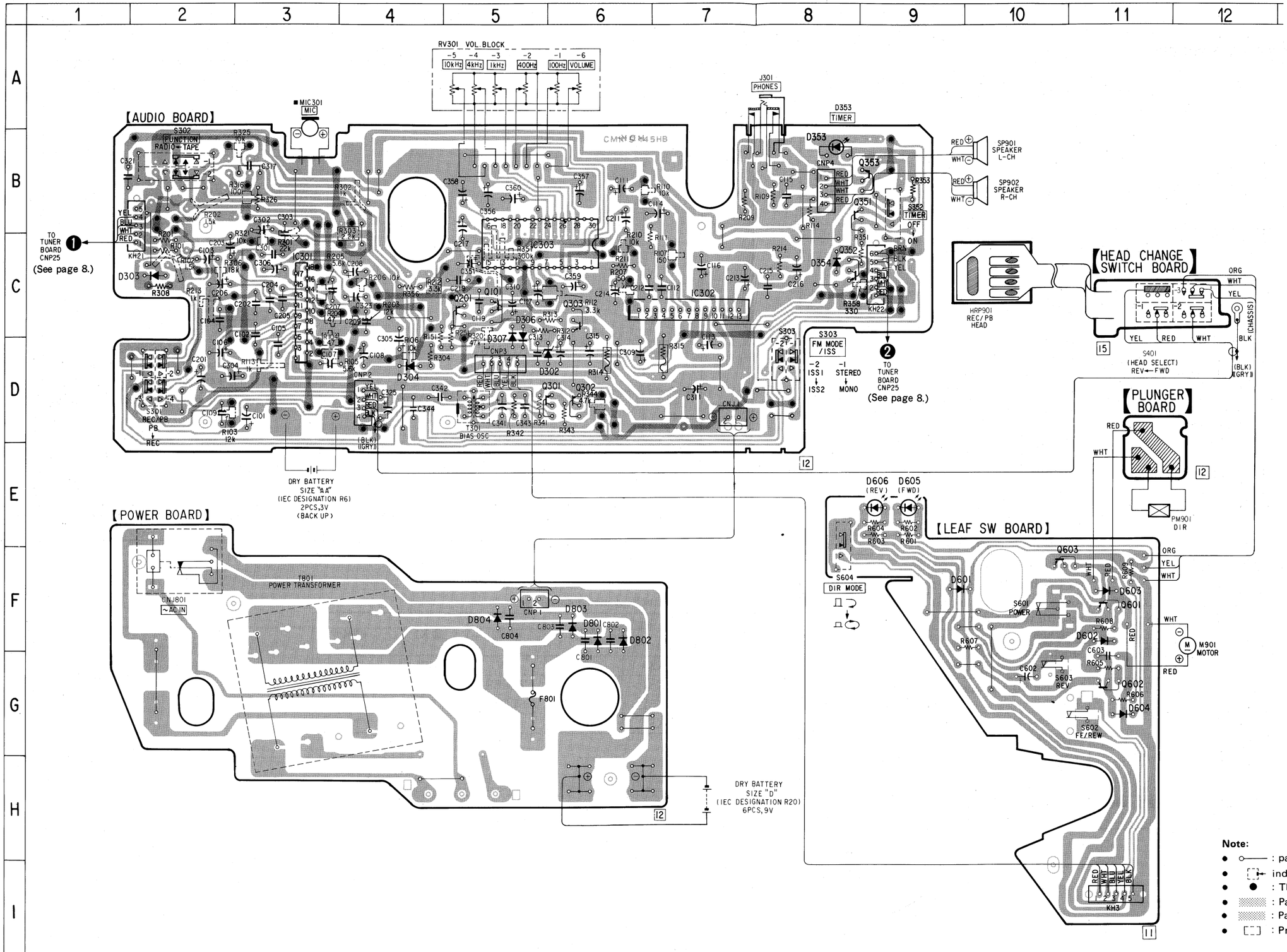
CNJ801
~AC IN

D801-804 : 1N4002

DRY BATTERY
SIZE "D"
(IEC DESIGNATION R20)
6PCS, 9V

4-5. PRINTED WIRING BOARDS — AUDIO SECTION —

• See page 9 for semiconductor lead layouts.



• **Semiconductor Location**

Ref. No.	Location
D302	D-6
D303	C-2
D304	D-4
D306	C-5
D307	C-5
D353	A-9
D354	C-8
D601	F-9
D602	F-11
D603	F-11
D604	G-11
D605	E-9
D606	E-9
D801	F-6
D802	F-6
D803	F-6
D804	F-5
IC301	C-3
IC302	C-7
IC303	C-5
Q101	C-5
Q201	C-5
Q301	D-6
Q302	D-6
Q303	C-6
Q351	B-9
Q352	C-8
Q353	B-9
Q601	F-11
Q602	G-11
Q603	F-10

Note:

- ○—— : parts extracted from the component side.
- ⊡ indicates side identified with part number.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.
- [⊡] : Printed resistor from the rear side.

4-6. IC701 (μPD1715G-568-22) PIN FUNCTIONS

Pin No.	Symbol	Naming	Description	Active
1 | 10 48 | 53	LCD10 | LCD1 LCD16 | LCD11	LCD SEGMENT SIGNALS	Segment signal output pins to LCD.	—
11 | 13	COM3 | COM1	LCD COMMON SIGNALS	Common signal output pin to LCD.	—
14 15 16 17	VSS3 CAP2 CAP1 VSS2	CAPACITOR CONNECTION PIN FOR DOUBLER	Capacitor connection pins for doubler circuit to make LCD drive voltage.	—
18	TIMER OUT (VDP)	TIMER OUT (POWER) OUTPUT PIN	Timer out (power control)output pin of the tuner.	High
19	ALARM (CGP)	ALARM OUTPUT PIN	Output pin of alarm sound. Output 3kHz pulse.	—
20,46	VDD	POWER SUPPLY INPUT PIN	Power supply input pin for device. Rising time of VDD are less than 100msec.	—
21	M	CONTROL SIGNAL INPUT PIN FOR DIVIDER	Determines the dividing ratio of the fixed-division prescaler. A 1/4 dividing ratio is made when this terminal is held at "High".	—
22	FM	FM VCO INPUT PIN	This pin inputs local osc signal when receiving FM bands.	—
23	AM	AM VCO INPUT PIN	This pin inputs local osc signal when receiving AM (LW, MW, SW) bands.	—
24	VSS1	GROUND PIN	Ground pin of device.	—
25, 26	EO1, 2	ERROR OUTPUT PIN	Phase detector output of the PLL.	—
27	CE	CHIP ENABLE	Device choice signal input pin.	—
28 29	XI XO	CRYSTAL OSCILLATOR CONNECTION PIN	An external quartz-crystal oscillator connects to these pins to obtain 75kHz signal generator.	—
30	10k/9k ST. BY	MW STEP SELECT	"High" when "STAND BY" indicates. "Low" when "STAND BY" blinks.	—
31	$\overline{SD}$ (PA2)	STATION DETECT INPUT PIN	Input pin SD station detect signal from the tuner.	Low
32	TC (PA1)	TAPE SIGNAL INPUT PIN	"High" level is input when tape deck is operating.	High
33	24H/$\overline{12H}$ (PA0) KS3	24H/12H SELECT PIN MOMENTARY KEY SOURCE SIGNAL	Initial setting input port of clock 24H/12H. 12H : Low 24H : High Key source output pin of key matrix.	—
34 35 36 37	BAND3 (PB3) BAND2 (PB2) BAND1 (PB1) BAND0 (PB0)	BAND SIGNAL OUTPUT PIN	These pins output band information to the tuner.	—
38	$\overline{MUTE}$ (PC3)	MUTE SIGNAL OUTPUT PIN	Mute signal out pin to mute noises encountered in the unlocked condition of the PLL and PLL and key-scan noises.	Low
39 40 42	KS2 (PC2) KS1 (PC1) KS0 (PC0)	MOMENTARY KEY SOURCE OUTPUT PIN	Key source output pin of key matrix.	High
43 44 45 47	K3 K2 K1 K0	KEY RETURN SIGNAL INPUT PIN	Key return signal input pin of momentary key and diode switch.	—
41, 54	NC	NO CONNECTION PIN	This is a free terminal and is not connected to the internal circuits.	

band	BAND 3	BAND 2	BAND 1	BAND 0
LW	0	0	0	0
SW1	0	0	0	1
SW2	0	0	1	0
SW3	0	0	1	1
SW4	0	1	0	0
SW5	0	1	0	1
SW6	0	1	1	0
SW7	0	1	1	1
MW	1	0	0	0
FM	1	0	0	1

● Key Matrix

Matrix table of momentary key

Input / Output	㊸ K3	㊹ K2	㊺ K1	㊼ K0
㉝ KS3	SW	LW	MW	FM
㊴ KS2	CLOCK	TIMER	UP	DOWN
㊵ KS1	STANDBY	SLEEP	M5	M4
㊷ KS0	MEMORY	M3	M2	M1

SECTION 5
EXPLODED VIEWS

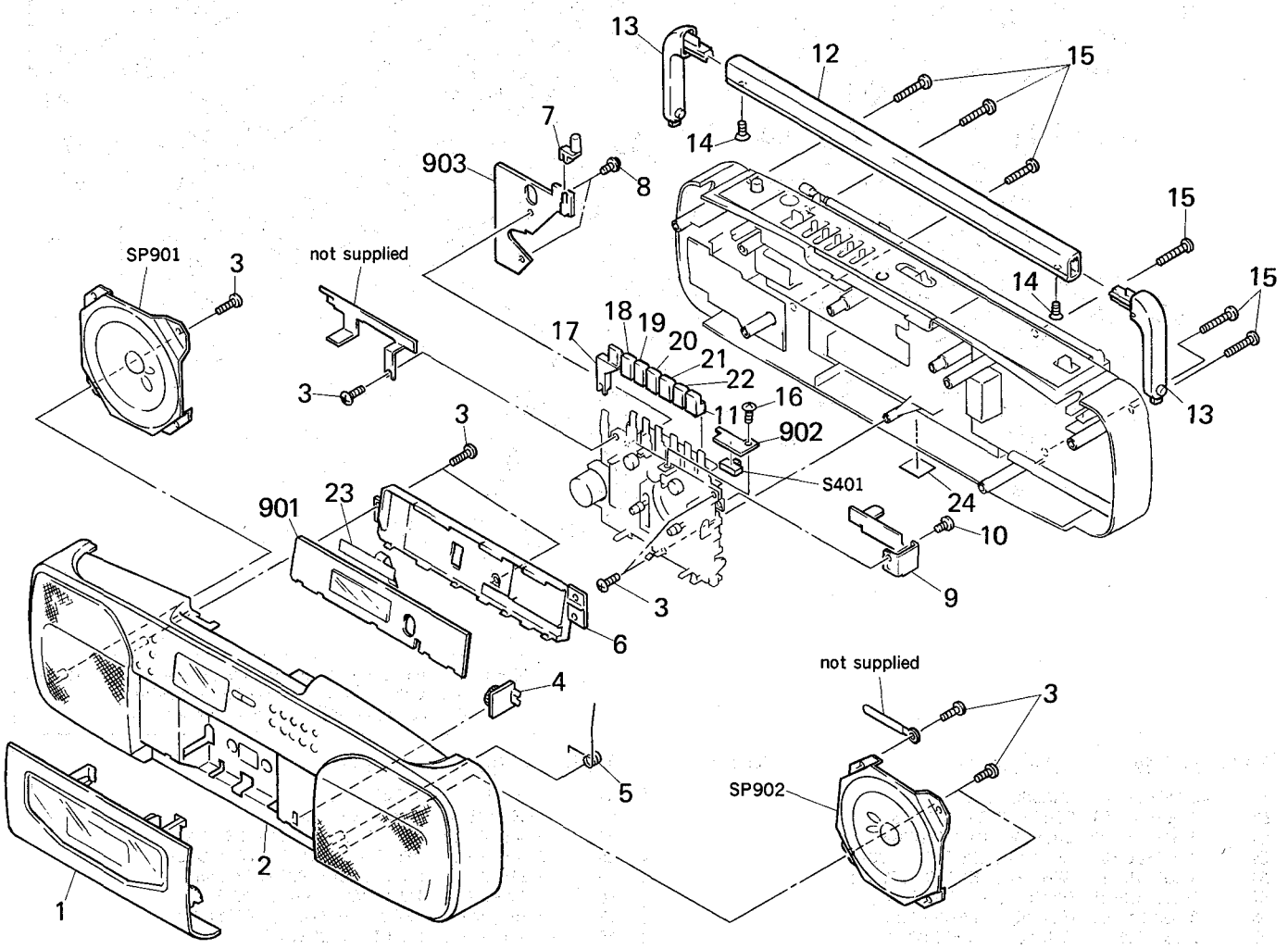
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- WG: West Germany model
  IT : Italian model

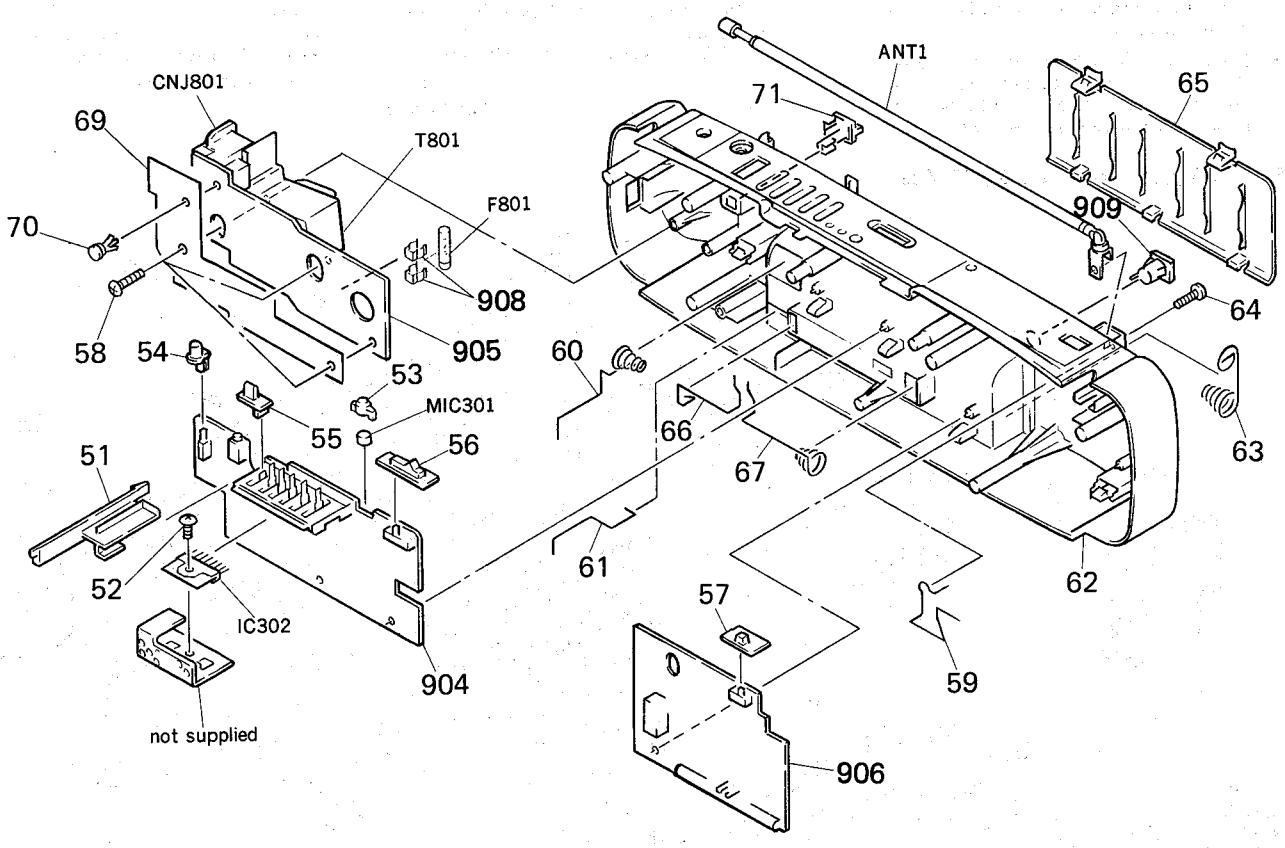
5-1. FRONT CABINET SECTION



Ref.No	Part No.	Description	Remark
1	X-3338-581-1	(BLACK)....HOLDER ASSY, CASSETTE	
1	X-3338-582-1	(WHITE)....HOLDER ASSY, CASSETTE	
1	X-3338-583-1	(RED)....HOLDER ASSY, CASSETTE	
2	X-3338-575-1	(BLACK)....CABINET (FRONT) ASSY	
2	X-3338-577-1	(WHITE)....CABINET (FRONT) ASSY	
2	X-3338-579-1	(RED)....CABINET (FRONT) ASSY	
3	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
4	3-351-377-11	DAMPER	
5	3-351-308-01	SPRING (CASSETTE)	
6	*3-352-367-01	CHASSIS (DIS)	
7	3-351-380-01	(BLACK)....BUTTON (R,M)	
7	3-351-380-11	(WHITE)....BUTTON (R,M)	
7	3-351-380-21	(RED)....BUTTON (R,M)	
8	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
9	*3-351-305-01	LEVER (REC 8)	
10	7-621-773-86	SCREW +BVTT 2.6X4 (S)	
11	3-351-382-11	BUTTON (STOP)	
12	3-351-314-01	(BLACK)....HANDLE	
12	3-351-314-11	(WHITE)....HANDLE	
12	3-351-314-21	(RED)....HANDLE	
13	3-343-063-01	(BLACK)....PLATE, SIDE, HANDLE	

Ref.No	Part No.	Description	Remark
13	3-343-063-21	(WHITE)....PLATE, SIDE, HANDLE	
13	3-343-063-31	(RED)....PLATE, SIDE, HANDLE	
14	7-685-248-14	(WHITE)....SCREW +KTP 3X12 TYPE2 NON-SLIT	
14	7-685-248-19	(BLACK, RED)....SCREW +KTP 3X12 TYPE2 SLIT	
15	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S	
16	7-627-553-28	SCREW,PRECISION +P 2X2.5	
17	3-351-306-11	BUTTON (DIR)	
18	3-351-386-11	BUTTON (PAUSE)	
19	3-351-381-11	BUTTON (FF)	
20	3-351-385-11	BUTTON (REW)	
21	3-351-384-11	BUTTON (PLAY)	
22	3-351-383-11	BUTTON (REC)	
23	3-356-110-01	SHEET (SHIELD)	
24	*3-352-357-01	(AEP, IT)....LABEL, MODEL NUMBER	
24	*3-352-358-01	(WG)....LABEL, MODEL NUMBER	
901	*A-3219-211-A	PC BOARD ASSY, DISPLAY	
902	1-616-098-11	PC BOARD, HEAD CHANGE SWITCH	
903	*1-630-212-11	PC BOARD, LEAF SW	
S401	1-570-943-11	SWITCH, SLIDE (HEAD SELECT)	
SP901	1-503-492-11	SPEAKER	
SP902	1-503-492-11	SPEAKER	

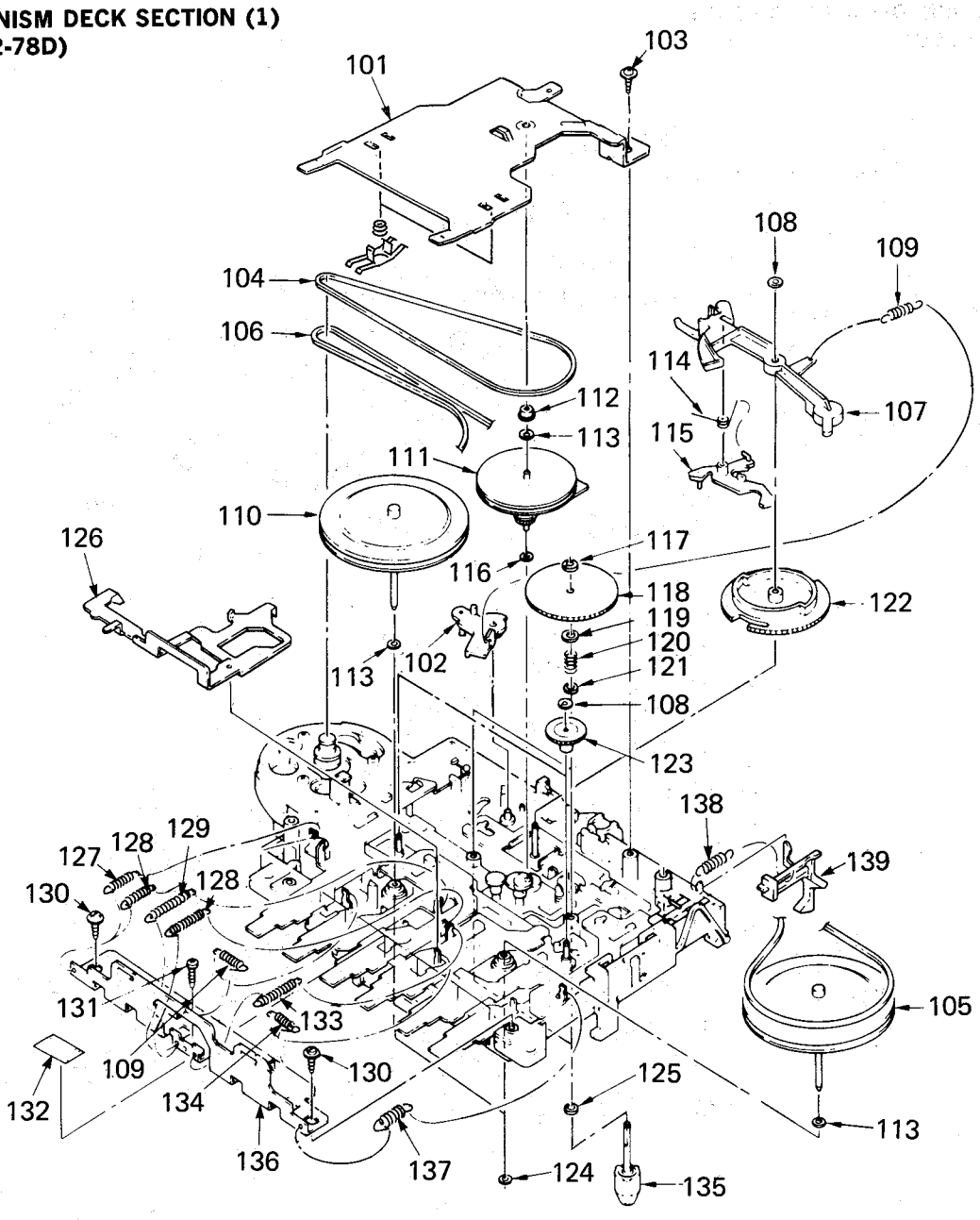
5-2. REAR CABINET SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description	Remark
51	*3-352-353-01	CHASSIS (VOL)	
52	7-682-547-04	SCREW BVTT 3X6 (S)	
53	3-321-122-01	CUSHION, MICROPHONE	
54	3-351-312-01	(BLACK)....BUTTON (PUSH)	
54	3-351-312-11	(WHITE)....BUTTON (PUSH)	
54	3-351-312-21	(RED)....BUTTON (PUSH)	
55	3-352-349-01	(BLACK)....KNOB (VOL)	
55	3-352-349-11	(WHITE)....KNOB (VOL)	
55	3-352-349-21	(RED)....KNOB (VOL)	
56	3-351-317-01	(BLACK)....KNOB (FUNCTION)	
56	3-351-317-11	(WHITE)....KNOB (FUNCTION)	
56	3-351-317-21	(RED)....KNOB (FUNCTION)	
57	3-346-118-11	(BLACK)....KNOB (SLIDE)	
57	3-346-118-21	(WHITE)....KNOB (SLIDE)	
57	3-346-118-31	(RED)....KNOB (SLIDE)	
58	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
59	3-351-318-01	TERMINAL, ANTENNA	
60	3-351-320-01	SPRING (MINUS)	
61	3-351-315-01	TERMINAL, PLUS	
62	3-352-368-21	(AEP : BLACK)....CABINET (REAR)	
62	3-352-368-31	(AEP : WHITE)....CABINET (REAR)	
62	3-352-368-41	(AEP : RED)....CABINET (REAR)	
62	3-352-368-51	(WG, IT : BLACK)....CABINET (REAR)	
62	3-352-368-61	(WG, IT : WHITE)....CABINET (REAR)	
62	3-352-368-71	(WG, IT : RED)....CABINET (REAR)	
63	3-351-387-01	SPRING (+, −)	
64	7-682-548-09	SCREW +B 3X8	
65	3-343-064-01	(BLACK)....LID, BATTERY CASE	
65	3-343-064-11	(WHITE)....LID, BATTERY CASE	
65	3-343-064-21	(RED)....LID, BATTERY CASE	
66	3-352-347-01	TERMINAL (SMALL), PLUS	
67	3-352-352-01	SPRING (SMALL −), TORSION	
69	*3-351-307-01	SHEET, INSULATING	
70	4-812-134-00	RIVET NYLON, 3.5	
71	3-351-313-01	(BLACK)....KNOB (ISS)	
71	3-351-313-11	(WHITE)....KNOB (ISS)	
71	3-351-313-21	(RED)....KNOB (ISS)	
904	*A-3270-677-A	PC BOARD ASSY, AUDIO	
905	*1-630-411-11	PC BOARD, POWER	
906	*A-3266-565-A	(AEP)....PC BOARD ASSY, TUNER	
906	*A-3266-566-A	(WG, IT)....PC BOARD ASSY, TUNER	
908	1-533-217-31	HOLDER, FUSE	
909	1-568-712-11	(AEP EXCEPT1WG, IT)....CONNECTOR (PAL)(EXT ANT)	
ANT1	1-501-375-11	ANTENNA, TELESCOPIC	
CNJ801	⚠ 1-526-838-11	INLET, AC 2P (~AC IN)	
F801	⚠ 1-532-285-00	FUSE, TIME-LAG (T1.25A)	
IC302	8-759-820-22	IC LA4597	
MIC301	1-542-092-11	MICROPHONE, ELECTRET CONDENSER (MIC)	
T801	⚠ 1-448-761-21	TRANSFORMER, POWER (10.25MHz)	

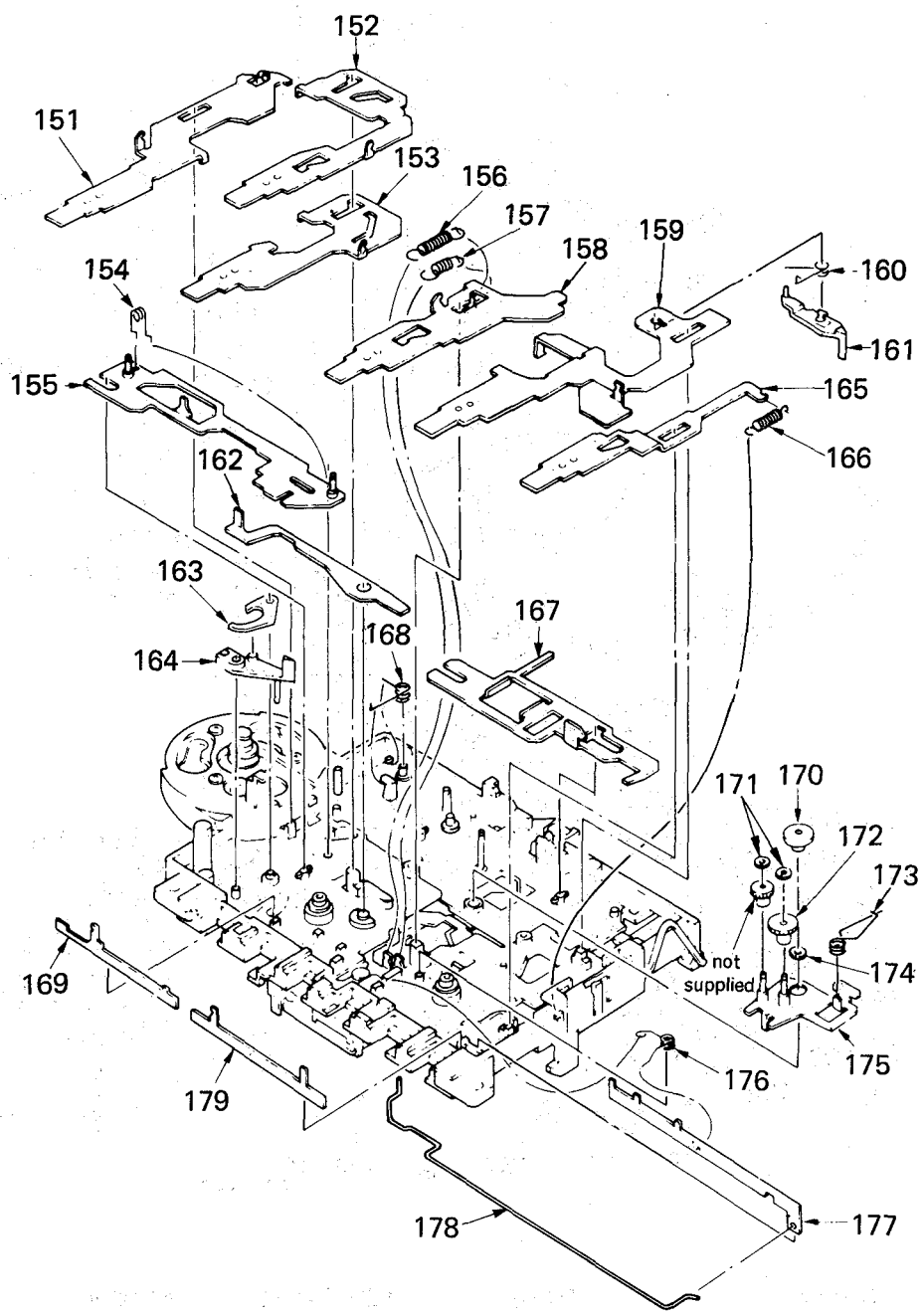
5-3. MECHANISM DECK SECTION (1) (MF-202-78D)



Ref.No	Part No.	Description	Remark
101	3-322-519-01	RETAINER, THRUST	
102	3-330-827-01	LEVER (B), GEAR LOCK	
103	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
104	3-657-035-XX	BELT, COUNTER	
105	X-3338-592-1	FLYWHEEL (RV) ASSY	
106	3-322-533-01	BELT	
107	3-330-833-01	LEVER (C), OA	
108	3-307-948-01	WASHER, NYLON	
109	3-322-527-01	SPRING, TENSION	
110	X-3338-591-1	FLYWHEEL (NR) ASSY	
111	X-3322-540-1	DETECTION BLOCK ASSY	
112	3-322-566-01	BEARING, PULLEY	
113	3-701-437-11	WASHER	
114	3-322-534-01	SPRING	
115	3-330-826-01	LEVER (D), OA	
116	3-701-437-01	WASHER	
117	3-578-223-21	WASHER, NYLON	
118	3-322-508-01	GEAR, REEL	
119	3-322-660-01	WASHER (B)	
120	3-321-541-01	SPRING, COMPRESSION	

Ref.No	Part No.	Description	Remark
121	3-322-659-01	WASHER (A)	
122	3-322-553-01	GEAR, CAM	
123	3-322-556-01	GEAR, FR	
124	3-325-698-01	RING, RETAINING	
125	3-545-715-00	WASHER	
126	*3-330-606-01	LEVER, SELECTION, S.OFF	
127	3-530-260-00	SPRING, TENSION	
128	3-322-522-01	SPRING, TENSION	
129	3-328-103-01	SPRING, TENSION	
130	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
131	7-685-105-19	SCREW (2X8), + PTPWH	
132	3-831-441-11	CUSHION (T)	
133	3-322-526-01	SPRING, TENSION(POWER TENSION)	
134	3-330-605-01	SPRING, TENSION	
135	X-3322-502-1	CLAW ASSY, REEL	
136	*3-322-518-01	RETAINER, LEVER	
137	3-322-691-01	SPRING, TENSION	
138	3-313-384-01	SPRING, TENSION	
139	3-322-511-01	CLAW, ERASING PROTECTION	

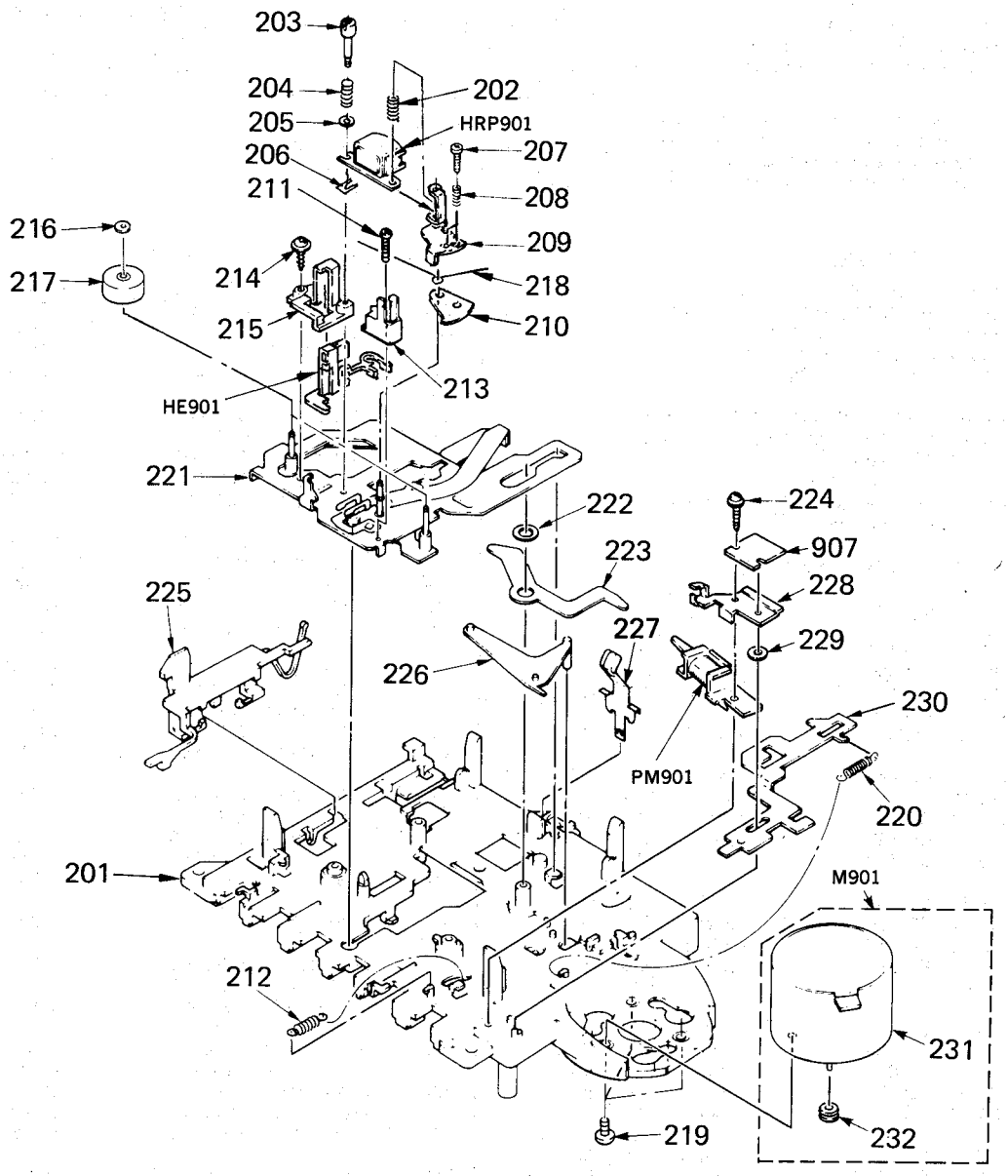
5-4. MECHANISM DECK SECTION (2) (MF-202-78D)



Ref.No	Part No.	Description	Remark
151	*3-330-829-11	LEVER (C), PAUSE BUTTON	
152	3-322-515-11	LEVER, REW BUTTON	
153	*3-322-585-11	LEVER, FF BUTTON	
154	3-322-578-01	SPRING	
155	*X-3322-505-1	LEVER ASSY, FR	
156	3-322-520-01	SPRING, TENSION	
157	3-322-693-01	SPRING, TENSION	
158	*3-322-584-11	LEVER, PLAY BUTTON	
159	*3-322-591-41	LEVER, REC BUTTON	
160	3-322-575-01	SPRING	
161	3-322-554-01	ARM, REC LOCK	
162	*3-322-517-01	LEVER, AMS	
163	3-322-555-01	LEVER (E), S.OFF	
164	X-3330-610-1	LEVER (R) ASSY, S.OFF	
165	*3-322-583-11	LEVER, STOP BUTTON	

Ref.No	Part No.	Description	Remark
166	3-322-528-01	SPRING, TENSION	
167	*3-322-586-01	LEVER, DIRECTION	
168	3-322-577-01	SPRING	
169	*3-322-587-01	PLATE (B), LOCK	
170	3-322-513-01	COLLAR	
171	3-570-615-00	POLY-WASHER (DIA.1.2)	
172	3-343-146-01	GEAR (A), FWD	
173	3-322-576-01	SPRING	
174	3-322-689-01	RING	
175	*X-3339-320-1	ARM ASSY (M), FWD GEAR	
176	3-322-579-01	SPRING	
177	*3-322-589-01	LEVER, SWITCH	
178	3-339-312-01	LEVER, POWER SW	
179	*3-330-604-01	PLATE (C), LOCK	

5-5. MECHANISM DECK SECTION (3) (MF-202-78D)



Ref.No	Part No.	Description	Remark
201	A-3102-109-A	CHASSIS ASSY, MECHANICAL	
202	3-341-163-01	SPRING, COMPRESSION	
203	3-322-567-11	SCREW, PAN, STEP	
204	3-318-106-01	SPRING (H), COMPRESSION	
205	7-688-001-01	W 2, SMALL	
206	3-578-138-01	SHIM (t=0.1)	
206	3-578-138-11	SHIM (t=0.2)	
207	7-627-851-27	SCREW,PRECISION +P 1.4X5	
208	3-322-531-01	SPRING, COMPRESSION	
209	*3-341-161-01	LEVER, AZIMUTH	
210	3-326-622-01	RETAINER, AZIMUTH	
211	7-621-255-65	SCREW +P 2X10	
212	3-330-633-01	SPRING, TENSION	
213	3-326-625-01	RETAINER, PC BOARD	
214	7-621-772-20	SCREW +B 2X5	
215	*3-339-701-01	GUIDE, TAPE	
216	3-307-948-01	WASHER, NYLON	
217	3-703-597-41	PINCH ROLLER, STANDARD	
218	3-341-164-01	SPRING	

Ref.No	Part No.	Description	Remark
219	7-621-770-87	SCREW +P 2.6X5	
220	3-322-528-01	SPRING, TENSION	
221	X-3337-810-1	CHASSIS (R) ASSY, HEAD	
222	3-701-443-11	WASHER	
223	*3-322-590-02	LEVER, DIRECTION RELEASE	
224	7-685-105-19	TPG +P 2X8, TYPE 2, NON-SLIT	
225	3-322-512-01	LEVER, EJECT	
226	3-322-514-01	LINK (A)	
227	3-322-595-01	SPRING	
228	*3-337-884-11	GUIDE (D), WIRING	
229	3-701-437-01	WASHER	
230	*3-330-601-11	LEVER, MANUAL BUTTON	
231	1-541-625-11	MOTOR, DC	
232	X-3322-524-1	PULLEY, MOTOR	
907	*1-602-735-00	PC BOARD, PLUNGER	
HE901	A-3114-042-A	ARM ASSY, EBF	
HRP901	1-543-389-41	HEAD, MAGNETIC (REC/PB)	
M901	A-3133-210-A	MOTOR ASSY	231, 232
PM901	1-454-355-00	SOLENOID, PLUNGER	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: *nonflammable*

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- WG: West Germany model
  IT : Italian model

Ref.No	Part No.	Description
901	*A-3219-211-A	PC BOARD ASSY, DISPLAY
902	1-616-098-11	PC BOARD, HEAD CHANGE SWITCH
903	*1-630-212-11	PC BOARD, LEAF SW
904	*A-3270-677-A	PC BOARD ASSY, AUDIO
905	*1-630-411-11	PC BOARD, POWER
906	*A-3266-565-A	(AEP)....PC BOARD ASSY, TUNER
906	*A-3266-566-A	(WG, IT)....PC BOARD ASSY, TUNER
907	*1-602-735-00	PC BOARD
908	1-533-217-31	HOLDER, FUSE
909	1-568-712-11	(AEP EXCEPTPWG, IT)....CONNECTOR, PAL (EXT ANT)
ANT1	1-501-375-11	ANTENNA, TELESCOPIC

CAPACITOR

C1	1-162-282-31	CERAMIC	100PF	10%	50V
C3	1-162-199-31	CERAMIC	10PF	5%	50V
C4	1-162-187-31	CERAMIC	1PF	20%	50V
C5	1-162-197-31	CERAMIC	6.8PF	10%	50V
C6	1-162-294-31	CERAMIC	0.001MF	10%	50V
C7	1-161-061-11	CERAMIC	0.068MF	10%	25V
C8	1-124-443-00	ELECT	100MF	20%	6.3V
C9	1-162-193-31	CERAMIC	3.3PF	10%	50V
C10	1-162-199-31	CERAMIC	10PF	5%	50V
C11	1-102-959-00	CERAMIC	22PF	5%	50V
C12	1-102-816-00	CERAMIC	120PF	5%	50V
C13	1-161-379-00	CERAMIC	0.01MF	30%	16V
C14	1-161-021-11	CERAMIC	0.047MF	10%	25V
C15	1-126-233-11	ELECT	22MF	20%	25V
C16	1-124-463-00	ELECT	0.1MF	20%	50V
C17	1-162-294-31	CERAMIC	0.001MF	10%	50V
C18	1-162-203-31	CERAMIC	15PF	5%	50V
C19	1-123-875-11	ELECT	10MF	20%	50V
C20	1-124-791-11	ELECT	1MF	20%	50V
C21	1-124-927-11	ELECT	4.7MF	20%	50V
C22	1-124-927-11	ELECT	4.7MF	20%	50V
C23	1-162-210-31	CERAMIC	30PF	5%	50V
C24	1-161-055-00	CERAMIC	0.022MF	10%	25V
C25	1-162-286-31	CERAMIC	220PF	10%	50V
C26	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C27	1-126-233-11	ELECT	22MF	20%	25V
C28	1-124-791-11	ELECT	1MF	20%	50V
C29	1-161-051-00	CERAMIC	0.01MF	10%	25V
C30	1-161-051-00	CERAMIC	0.01MF	10%	25V
C31	1-124-902-00	ELECT	0.47MF	20%	50V
C32	1-124-927-11	ELECT	4.7MF	20%	50V
C33	1-124-791-11	ELECT	1MF	20%	50V
C34	1-124-902-00	ELECT	0.47MF	20%	50V
C35	1-124-902-00	ELECT	0.47MF	20%	50V
C37	1-161-379-00	CERAMIC	0.01MF	30%	16V
C38	1-161-379-00	CERAMIC	0.01MF	30%	16V
C39	1-161-379-00	CERAMIC	0.01MF	30%	16V
C40	1-161-379-00	CERAMIC	0.01MF	30%	16V
C41	1-161-379-00	CERAMIC	0.01MF	30%	16V
C42	1-161-379-00	CERAMIC	0.01MF	30%	16V
C43	1-161-379-00	CERAMIC	0.01MF	30%	16V
C44	1-162-211-31	CERAMIC	33PF	5%	50V
C45	1-161-379-00	CERAMIC	0.01MF	30%	16V
C46	1-161-379-00	CERAMIC	0.01MF	30%	16V
C47	1-161-379-00	CERAMIC	0.01MF	30%	16V
C48	1-162-294-31	CERAMIC	0.001MF	10%	50V
C49	1-162-294-31	CERAMIC	0.001MF	10%	50V
C50	1-161-379-00	CERAMIC	0.01MF	30%	16V
C51	1-161-379-00	CERAMIC	0.01MF	30%	16V
C53	1-161-379-00	CERAMIC	0.01MF	30%	16V
C54	1-161-379-00	CERAMIC	0.01MF	30%	16V
C55	1-161-379-00	CERAMIC	0.01MF	30%	16V
C56	1-161-379-00	CERAMIC	0.01MF	30%	16V
C57	1-162-211-31	CERAMIC	33PF	5%	50V
C58	1-162-282-31	CERAMIC	100PF	10%	50V
C59	1-162-294-31	CERAMIC	0.001MF	10%	50V
C60	1-123-875-11	ELECT	10MF	20%	50V
C61	1-124-963-11	ELECT	33MF	20%	16V
C62	1-124-963-11	ELECT	33MF	20%	16V
C64	1-161-379-00	CERAMIC	0.01MF	30%	16V
C65	1-102-973-00	CERAMIC	100PF	5%	50V
C66	1-161-379-00	CERAMIC	0.01MF	30%	16V
C68	1-161-379-00	CERAMIC	0.01MF	30%	16V
C69	1-161-379-00	CERAMIC	0.01MF	30%	16V
C70	1-162-198-31	CERAMIC	8.2PF	10%	50V
C71	1-162-193-31	CERAMIC	3.3PF	10%	50V
C72	1-162-199-31	CERAMIC	10PF	5%	50V
C73	1-162-191-31	CERAMIC	2.2PF	10%	50V
C74	1-162-294-31	CERAMIC	0.001MF	10%	50V
C75	1-162-294-31	CERAMIC	0.001MF	10%	50V
C76	1-124-446-11	ELECT	47MF	20%	10V
C77	1-161-379-00	CERAMIC	0.01MF	30%	16V
C78	1-124-791-11	ELECT	1MF	20%	50V
C79	1-161-379-00	CERAMIC	0.01MF	30%	16V
C81	1-161-379-00	CERAMIC	0.01MF	30%	16V
C82	1-123-875-11	ELECT	10MF	20%	50V
C83	1-101-888-00	CERAMIC	68PF	5%	50V
C84	1-161-041-00	CERAMIC	0.0015MF	10%	25V
C85	1-124-446-11	ELECT	47MF	20%	10V
C86	1-124-902-00	ELECT	0.47MF	20%	50V
C88	1-161-379-00	CERAMIC	0.01MF	30%	16V
C90	1-161-379-00	CERAMIC	0.01MF	30%	16V
C91	1-162-282-31	CERAMIC	100PF	10%	50V
C92	1-162-282-31	CERAMIC	100PF	10%	50V
C93	1-162-294-31	CERAMIC	0.001MF	10%	50V
C95	1-162-294-31	CERAMIC	0.001MF	10%	50V
C96	1-162-294-31	CERAMIC	0.001MF	10%	50V
C97	1-162-215-31	CERAMIC	47PF	5%	50V
C98	1-162-282-31	CERAMIC	100PF	10%	50V
C99	1-162-288-31	CERAMIC	330PF	10%	50V
C100	1-161-379-00	CERAMIC	0.01MF	30%	16V
C101	1-124-791-11	ELECT	1MF	20%	50V
C102	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C103	1-124-902-00	ELECT	0.47MF	20%	50V
C104	1-161-375-00	CERAMIC	0.0022MF	30%	16V

Ref.No	Part No.	Description			
C105	1-162-286-31	CERAMIC	220PF	10%	50V
C106	1-124-446-11	ELECT	47MF	20%	10V
C107	1-162-843-11	CERAMIC	0.022MF	10%	16V
C108	1-124-902-00	ELECT	0.47MF	20%	50V
C109	1-161-044-00	CERAMIC	0.0027MF	10%	25V
C111	1-124-927-11	ELECT	4.7MF	20%	50V
C112	1-161-377-00	CERAMIC	0.0047MF	10%	16V
C113	1-124-443-00	ELECT	100MF	20%	10V
C114	1-124-446-11	ELECT	47MF	20%	10V
C115	1-130-495-00	MYLAR	0.1MF	5%	50V
C116	1-124-472-11	ELECT	470MF	20%	10V
C117	1-124-925-11	ELECT	2.2MF	20%	50V
C119	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C201	1-124-791-11	ELECT	1MF	20%	50V
C202	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C203	1-124-902-00	ELECT	0.47MF	20%	50V
C204	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C205	1-162-286-31	CERAMIC	220PF	10%	50V
C206	1-124-446-11	ELECT	47MF	20%	10V
C207	1-162-843-11	CERAMIC	0.022MF	10%	16V
C208	1-124-902-00	ELECT	0.47MF	20%	50V
C209	1-161-044-00	CERAMIC	0.0027MF	10%	25V
C211	1-124-927-11	ELECT	4.7MF	20%	50V
C212	1-161-377-00	CERAMIC	0.0047MF	10%	16V
C213	1-124-443-00	ELECT	100MF	20%	10V
C214	1-124-446-11	ELECT	47MF	20%	10V
C215	1-130-495-00	MYLAR	0.1MF	5%	50V
C216	1-124-472-11	ELECT	470MF	20%	10V
C217	1-124-925-11	ELECT	2.2MF	20%	50V
C219	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C301	1-161-494-00	CERAMIC	0.022MF		25V
C302	1-123-875-11	ELECT	10MF	20%	50V
C303	1-161-379-00	CERAMIC	0.01MF	30%	16V
C304	1-124-963-11	ELECT	33MF	20%	16V
C305	1-124-120-11	ELECT	220MF	20%	16V
C306	1-126-233-11	ELECT	22MF	20%	25V
C309	1-124-120-11	ELECT	220MF	20%	16V
C310	1-123-875-11	ELECT	10MF	20%	50V
C311	1-124-556-11	ELECT	2200MF	20%	16V
C313	1-161-379-00	CERAMIC	0.01MF	30%	16V
C314	1-126-176-11	ELECT	220MF	20%	10V
C315	1-124-443-00	ELECT	100MF	20%	10V
C317	1-102-106-00	CERAMIC	100PF	10%	50V
C321	1-162-282-31	CERAMIC	100PF	10%	50V
C323	1-124-927-11	ELECT	4.7MF	20%	50V
C325	1-124-927-11	ELECT	4.7MF	20%	50V
C341	1-124-446-11	ELECT	47MF	20%	10V
C342	1-130-481-00	MYLAR	0.0068MF	5%	50V
C343	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C344	1-162-294-31	CERAMIC	0.001MF	10%	50V
C351	1-124-443-00	ELECT	100MF	20%	10V
C356	1-124-791-11	ELECT	1MF	20%	50V
C357	1-124-791-11	ELECT	1MF	20%	50V
C358	1-124-791-11	ELECT	1MF	20%	50V
C359	1-124-791-11	ELECT	1MF	20%	50V
C360	1-124-791-11	ELECT	1MF	20%	50V
C602	1-124-927-11	ELECT	4.7MF	20%	50V
C603	1-162-847-11	CERAMIC	0.047MF	10%	16V
C701	1-161-379-00	CERAMIC	0.01MF	30%	16V
C702	1-161-379-00	CERAMIC	0.01MF	30%	16V
C703	1-162-294-31	CERAMIC	0.001MF	10%	50V
C704	1-161-379-00	CERAMIC	0.01MF	30%	16V
C705	1-161-379-00	CERAMIC	0.01MF	30%	16V
C706	1-131-361-00	TANTALUM	2.2MF	20%	20V
C707	1-161-379-00	CERAMIC	0.01MF	30%	16V

Ref.No	Part No.	Description			
C708	1-161-494-00	CERAMIC	0.022MF		25V
C709	1-124-576-11	ELECT	220MF	20%	4V
C710	1-161-494-00	CERAMIC	0.022MF		25V
C711	1-161-379-00	CERAMIC	0.01MF	30%	16V
C712	1-162-851-11	CERAMIC	0.1MF	20%	16V
C713	1-161-494-00	CERAMIC	0.022MF		25V
C714	1-162-851-11	CERAMIC	0.1MF	20%	16V
C715	1-162-203-31	CERAMIC	15PF	5%	50V
C716	1-162-212-31	CERAMIC	36PF	5%	50V
C718	1-162-282-31	CERAMIC	100PF	10%	50V
C719	1-162-282-31	CERAMIC	100PF	10%	50V
C720	1-162-282-31	CERAMIC	100PF	10%	50V
C722	1-162-282-31	CERAMIC	100PF	10%	50V
C724	1-162-282-31	CERAMIC	100PF	10%	50V
C727	1-161-494-00	CERAMIC	0.022MF		25V
C729	1-161-494-00	CERAMIC	0.022MF		25V
C730	1-162-215-31	CERAMIC	47PF	5%	50V
C731	1-162-288-31	CERAMIC	330PF	10%	50V
C732	1-162-288-31	CERAMIC	330PF	10%	50V
C733	1-162-282-31	CERAMIC	100PF	10%	50V
C734	1-162-282-31	CERAMIC	100PF	10%	50V
C735	1-162-294-31	CERAMIC	0.001MF	10%	50V
C801	1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
C804	1-101-005-00	CERAMIC	0.022MF		50V
CF1	1-567-960-11	FILTER, CERAMIC			
CF2	1-567-309-11	FILTER, CERAMIC			
CF4	1-567-164-00	VIBRATOR, CERAMIC			
CF5	1-567-895-11	FILTER, CERAMIC			
CNJ1	*1-563-307-11	CONNECTOR (SOCKET) 2P			
CNJ22	*1-563-470-11	HOUSING, CONNECTOR 2P			
CNJ23	*1-562-680-11	CONNECTOR, SMALL MICRO 2P			
CNJ26	*1-562-680-21	(AEPPEXCEPT WG, IT).... CONNECTOR, SMALL MICRO 2P			
CNJ801⚠	1-526-838-11	INLET, AC 2P (~AC IN)			
CNP1	*1-568-259-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP2	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP3	*1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP4	*1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP21	*1-506-989-11	PIN, CONNECTOR (PC BOARD) 7P			
CNP22	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP23	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P			
CNP24	*1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP25	*1-506-992-11	PIN, CONNECTOR (PC BOARD) 10P			
CNP26	*1-564-777-21	(AEP EXCEPT WG, IT)....PLUG, CONNECTOR (2.5MM) 2P			
CP1	1-235-171-00	FILTER, BAND PASS			
D1	1-808-423-11	DIODE KV1310A-2			
D2	1-808-423-11	DIODE KV1310A-2			
D3	1-807-738-11	DIODE SLR-34VR70F130			
D4	8-719-903-27	DIODE 1SS168			
D5	8-719-903-27	DIODE 1SS168			
D6	8-719-903-27	DIODE 1SS168			
D7	8-719-903-27	DIODE 1SS168			
D8	8-719-903-27	DIODE 1SS168			
D9	8-719-903-27	DIODE 1SS168			
D10	8-719-903-27	DIODE 1SS168			
D11	8-719-903-27	DIODE 1SS168			
D12	8-719-903-27	DIODE 1SS168			
D15	8-719-911-19	DIODE 1SS119			
D16	8-719-911-19	DIODE 1SS119			
D17	8-719-911-19	DIODE 1SS119			
D20	8-719-911-19	DIODE 1SS119			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
D21	8-719-936-68	DIODE KV1260
D22	8-719-911-19	DIODE 1SS119
D24	8-719-911-19	DIODE 1SS119
D25	8-719-911-19	DIODE 1SS119
D26	8-719-911-19	DIODE 1SS119
D27	8-719-911-19	DIODE 1SS119
D28	8-719-911-19	DIODE 1SS119
D29	8-719-911-19	DIODE 1SS119
D30	8-719-911-19	DIODE 1SS119
D81	8-719-911-19	DIODE 1SS119
D302	8-719-109-97	DIODE RD6.8ES-B2
D303	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119
D307	8-719-911-19	DIODE 1SS119
D353	1-807-738-11	DIODE SLR-34VR70F130
D354	8-719-911-19	DIODE 1SS119
D601	8-719-911-19	DIODE 1SS119
D602	8-719-911-19	DIODE 1SS119
D603	8-719-911-19	DIODE 1SS119
D604	8-719-911-19	DIODE 1SS119
D605	1-807-738-11	DIODE SLR-34VR70F130
D606	1-807-738-11	DIODE SLR-34VR70F130
D701	8-719-911-19	DIODE 1SS119
D702	8-719-911-19	DIODE 1SS119
D703	8-719-911-19	DIODE 1SS119
D704	8-719-911-19	DIODE 1SS119
D705	8-719-911-19	DIODE 1SS119
D707	8-719-109-68	DIODE RD3.6ES-B1
D708	8-719-109-68	DIODE RD3.6ES-B1
D709	8-719-109-68	DIODE RD3.6ES-B1
D710	8-719-109-68	DIODE RD3.6ES-B1
D801	8-719-200-02	DIODE 10E2
D802	8-719-200-02	DIODE 10E2
D803	8-719-200-02	DIODE 10E2
D804	8-719-200-02	DIODE 10E2
F801 ⚠	1-532-285-00	FUSE, TIME-LAG (T1.25A)
HE901	A-3114-042-A	ARM ASSY, EBF
HRP901	1-543-389-41	HEAD, MAGNETIC (REC/PB)
IC1	8-759-908-89	IC CX20029
IC3	8-759-240-28	IC UPD4028C
IC4	8-759-103-49	IC UPA76HA-F
IC81	8-759-230-45	IC TA8148S
IC301	8-759-978-54	IC BA3420AL
IC302	8-759-820-22	IC LA4597
IC303	8-752-036-78	IC CXA1351S
IC701	8-759-145-52	IC UPD1715G-568-22
J301	1-568-267-11	JACK (PHONES)
KH3	*1-565-386-11	HOLDER, CABLE 5P
KH21	*1-565-386-11	HOLDER, CABLE 5P
L1	*1-422-038-00	COIL, AIR-CORE
L2	*1-459-703-11	COIL (WITH CORE)
L3	1-410-509-11	INDUCTOR 10UH
L4	1-410-521-11	INDUCTOR 100UH
L5	1-459-768-11	COIL (WITH CORE)
L6	1-459-767-11	COIL (WITH CORE)
L7	1-459-766-11	COIL (WITH CORE)
L8	1-459-765-11	COIL (WITH CORE)
L9	1-459-764-11	COIL (WITH CORE)
L10	1-459-763-11	COIL (WITH CORE)
L11	1-459-762-11	COIL (WITH CORE)

Ref.No	Part No.	Description
L12	1-408-417-00	MICRO INDUCTOR 47UH
L13	1-410-501-11	INDUCTOR 2.2UH
L14	1-402-446-11	ANTENNA, FERRITE-ROD
L15	1-426-329-11	COIL, AM RF
L16	1-410-316-11	INDUCTOR 1UH
L17	1-406-245-11	COIL, AM OSCILLATION
L81	1-410-509-11	INDUCTOR 10UH
L82	1-410-509-11	INDUCTOR 10UH
L83	1-410-509-11	INDUCTOR 10UH
L701	1-410-525-11	INDUCTOR 220UH
LCD701	1-808-361-11	LISPLAY PANEL, LIQUID CRYSTAL
M901	A-3133-210-A	MOTOR ASSY
MIC301	1-542-092-11	MICROPHONE, ELECTRET CONDENSER (MIC)
PM901	1-454-355-00	SOLENOID, PLUNGER
Q1	8-729-900-80	TRANSISTOR DTC114ES
Q2	8-729-178-73	TRANSISTOR 2SC2787
Q3	8-729-900-80	TRANSISTOR DTC114ES
Q5	8-729-900-80	TRANSISTOR DTC114ES
Q7	8-729-900-80	TRANSISTOR DTC114ES
Q8	8-729-119-32	TRANSISTOR 2SK193
Q9	8-729-178-73	TRANSISTOR 2SC2787
Q10	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q11	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q12	8-729-900-80	TRANSISTOR DTC114ES
Q13	8-729-900-80	TRANSISTOR DTC114ES
Q14	8-729-178-73	TRANSISTOR 2SC2787
Q15	8-729-178-73	TRANSISTOR 2SC2787
Q16	8-729-178-73	TRANSISTOR 2SC2787
Q17	8-729-119-32	TRANSISTOR 2SK193
Q18	8-729-178-73	TRANSISTOR 2SC2787
Q19	8-729-900-80	TRANSISTOR DTC114ES
Q20	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q21	8-729-900-80	TRANSISTOR DTC114ES
Q22	8-729-900-80	TRANSISTOR DTC114ES
Q23	8-729-178-62	TRANSISTOR 2SC2786-L
Q24	8-729-178-62	TRANSISTOR 2SC2786-L
Q25	8-729-178-62	TRANSISTOR 2SC2786-L
Q26	8-729-904-39	TRANSISTOR DTC114TS
Q27	8-729-904-39	TRANSISTOR DTC114TS
Q28	8-729-900-80	TRANSISTOR DTC114ES
Q29	8-729-900-80	TRANSISTOR DTC114ES
Q30	8-729-900-80	TRANSISTOR DTC114ES
Q101	8-729-900-74	TRANSISTOR DTC143TS
Q201	8-729-900-74	TRANSISTOR DTC143TS
Q301	8-729-281-52	TRANSISTOR 2SC1815-GR
Q302	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q303	8-729-177-32	TRANSISTOR 2SD773
Q351	8-729-195-23	TRANSISTOR 2SA952
Q352	8-729-206-25	TRANSISTOR RN1207
Q353	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q602	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q603	8-729-177-32	TRANSISTOR 2SD773
Q701	8-729-178-73	TRANSISTOR 2SC2787
Q702	8-729-178-62	TRANSISTOR 2SC2786-L
Q703	8-729-106-07	TRANSISTOR 2SK514
Q704	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q705	8-729-106-07	TRANSISTOR 2SK514

RESISTOR

R1	1-249-429-11	CARBON	10K	5%	1/4W
R2	1-249-429-11	CARBON	10K	5%	1/4W
R3	1-247-876-11	CARBON	75K	5%	1/4W
R4	1-247-876-11	CARBON	75K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description				
R5	1-249-411-11	CARBON	330	5%	1/4W	
R6	1-249-417-11	CARBON	1K	5%	1/4W	
R7	1-247-887-00	CARBON	220K	5%	1/4W	
R8	1-249-425-11	CARBON	4.7K	5%	1/4W	
R10	1-249-417-11	CARBON	1K	5%	1/4W	
R12	1-249-405-11	CARBON	100	5%	1/4W	
R13	1-249-429-11	CARBON	10K	5%	1/4W	
R14	1-249-441-11	CARBON	100K	5%	1/4W	
R18	1-249-439-11	CARBON	68K	5%	1/4W	
R19	1-247-852-11	CARBON	7.5K	5%	1/4W	
R20	1-247-852-11	CARBON	7.5K	5%	1/4W	
R21	1-249-421-11	CARBON	2.2K	5%	1/4W	
R22	1-249-433-11	CARBON	22K	5%	1/4W	
R23	1-247-852-11	CARBON	7.5K	5%	1/4W	
R24	1-247-852-11	CARBON	7.5K	5%	1/4W	
R26	1-249-422-11	CARBON	2.7K	5%	1/4W	
R27	1-249-422-11	CARBON	2.7K	5%	1/4W	
R28	1-249-422-11	CARBON	2.7K	5%	1/4W	
R29	1-249-422-11	CARBON	2.7K	5%	1/4W	
R30	1-249-422-11	CARBON	2.7K	5%	1/4W	
R31	1-249-422-11	CARBON	2.7K	5%	1/4W	
R32	1-249-422-11	CARBON	2.7K	5%	1/4W	
R35	1-247-896-11	CARBON	510K	5%	1/4W	
R36	1-249-417-11	CARBON	1K	5%	1/4W	
R37	1-247-887-00	CARBON	220K	5%	1/4W	
R38	1-249-413-11	CARBON	470	5%	1/4W	
R39	1-249-429-11	CARBON	10K	5%	1/4W	
R40	1-249-417-11	CARBON	1K	5%	1/4W	
R41	1-249-435-11	CARBON	33K	5%	1/4W	
R42	1-249-429-11	CARBON	10K	5%	1/4W	
R43	1-247-887-00	CARBON	220K	5%	1/4W	
R44	1-249-422-11	CARBON	2.7K	5%	1/4W	
R45	1-249-417-11	CARBON	1K	5%	1/4W	
R46	1-249-405-11	CARBON	100	5%	1/4W	
R47	1-249-405-11	CARBON	100	5%	1/4W	
R48	1-249-439-11	CARBON	68K	5%	1/4W	
R49	1-249-405-11	CARBON	100	5%	1/4W	
R50	1-247-887-00	CARBON	220K	5%	1/4W	
R52	1-249-413-11	CARBON	470	5%	1/4W	
R53	1-249-437-11	CARBON	47K	5%	1/4W	
R54	1-249-437-11	CARBON	47K	5%	1/4W	
R55	1-249-437-11	CARBON	47K	5%	1/4W	
R56	1-249-437-11	CARBON	47K	5%	1/4W	
R57	1-247-881-00	CARBON	120K	5%	1/4W	
R58	1-249-427-11	CARBON	6.8K	5%	1/4W	
R59	1-249-427-11	CARBON	6.8K	5%	1/4W	
R60	1-249-417-11	CARBON	1K	5%	1/4W	
R61	1-247-881-00	CARBON	120K	5%	1/4W	
R63	1-249-437-11	CARBON	47K	5%	1/4W	
R64	1-247-883-00	CARBON	150K	5%	1/4W	
R65	1-249-413-11	CARBON	470	5%	1/4W	
R66	1-247-887-00	CARBON	220K	5%	1/4W	
R67	1-249-413-11	CARBON	470	5%	1/4W	
R68	1-249-429-11	CARBON	10K	5%	1/4W	
R69	1-249-429-11	CARBON	10K	5%	1/4W	
R72	1-249-411-11	CARBON	330	5%	1/4W	
R73	1-249-405-11	CARBON	100	5%	1/4W	
R74	1-249-429-11	CARBON	10K	5%	1/4W	
R75	1-249-438-11	CARBON	56K	5%	1/4W	
R76	1-249-415-11	CARBON	680	5%	1/4W	
R77	1-249-421-11	CARBON	2.2K	5%	1/4W	
R78	1-249-405-11	CARBON	100	5%	1/4W	
R82	1-249-405-11	CARBON	100	5%	1/4W	
R83	1-249-405-11	CARBON	100	5%	1/4W	
R84	1-249-407-11	CARBON	150	5%	1/4W	

Ref.No	Part No.	Description				
R86	1-247-852-11	CARBON	7.5K	5%	1/4W	
R88	1-249-437-11	CARBON	47K	5%	1/4W	
R89	1-249-413-11	CARBON	470	5%	1/4W	
R91	1-249-411-11	CARBON	330	5%	1/4W	
R93	1-249-415-11	CARBON	680	5%	1/4W	
R95	1-249-431-11	CARBON	15K	5%	1/4W	
R96	1-249-411-11	CARBON	330	5%	1/4W	
R98	1-249-405-11	CARBON	100	5%	1/4W	
R99	1-249-415-11	CARBON	680	5%	1/4W	
R101	1-249-434-11	CARBON	27K	5%	1/4W	
R102	1-249-419-11	CARBON	1.5K	5%	1/4W	
R103	1-249-430-11	CARBON	12K	5%	1/4W	
R104	1-249-401-11	CARBON	47	5%	1/4W	
R105	1-249-426-11	CARBON	5.6K	5%	1/4W	
R106	1-249-429-11	CARBON	10K	5%	1/4W	
R107	1-249-407-11	CARBON	150	5%	1/4W	
R109	1-249-405-11	CARBON	100	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-425-11	CARBON	4.7K	5%	1/4W	
R112	1-249-423-11	CARBON	3.3K	5%	1/4W	
R113	1-249-417-11	CARBON	1K	5%	1/4W	
R114	1-249-389-11	CARBON	4.7	5%	1/4W	
R151	1-247-891-00	CARBON	330K	5%	1/4W	
R201	1-249-434-11	CARBON	27K	5%	1/4W	
R202	1-249-419-11	CARBON	1.5K	5%	1/4W	
R203	1-249-430-11	CARBON	12K	5%	1/4W	
R204	1-249-401-11	CARBON	47	5%	1/4W	
R205	1-249-426-11	CARBON	5.6K	5%	1/4W	
R206	1-249-429-11	CARBON	10K	5%	1/4W	
R207	1-249-407-11	CARBON	150	5%	1/4W	
R209	1-249-405-11	CARBON	100	5%	1/4W	
R210	1-249-429-11	CARBON	10K	5%	1/4W	
R211	1-249-425-11	CARBON	4.7K	5%	1/4W	
R212	1-249-423-11	CARBON	3.3K	5%	1/4W	
R213	1-249-417-11	CARBON	1K	5%	1/4W	
R214	1-249-389-11	CARBON	4.7	5%	1/4W	
R251	1-247-891-00	CARBON	330K	5%	1/4W	
R301	1-249-433-11	CARBON	22K	5%	1/4W	
R302	1-249-417-11	CARBON	1K	5%	1/4W	
R303	1-249-421-11	CARBON	2.2K	5%	1/4W	
R304	1-249-407-11	CARBON	150	5%	1/4W	
R306	1-249-432-11	CARBON	18K	5%	1/4W	
R308	1-249-425-11	CARBON	4.7K	5%	1/4W	
R312	1-249-409-11	CARBON	220	5%	1/4W	
R313	1-249-405-11	CARBON	100	5%	1/4W	
R314 ⚠	1-217-642-00	FUSIBLE	6.8	5%	1/4W	F
R315 ⚠	1-217-640-11	FUSIBLE	3.3	5%	1/4W	F
R320	1-249-437-11	CARBON	47K	5%	1/4W	
R321	1-249-429-11	CARBON	10K	5%	1/4W	
R325	1-249-429-11	CARBON	10K	5%	1/4W	
R326	1-249-433-11	CARBON	22K	5%	1/4W	
R341	1-249-405-11	CARBON	100	5%	1/4W	
R342	1-249-435-11	CARBON	33K	5%	1/4W	
R343	1-249-389-11	CARBON	4.7	5%	1/4W	
R344	1-249-425-11	CARBON	4.7K	5%	1/4W	
R351	1-249-417-11	CARBON	1K	5%	1/4W	
R353	1-249-421-11	CARBON	2.2K	5%	1/4W	
R356	1-249-402-11	CARBON	56	5%	1/4W	
R357	1-215-480-00	CARBON	300K	5%	1/4W	
R358	1-249-411-11	CARBON	330	5%	1/4W	
R601	1-249-416-11	CARBON	820	5%	1/4W	
R602	1-249-410-11	CARBON	270	5%	1/4W	
R603	1-249-416-11	CARBON	820	5%	1/4W	
R604	1-249-411-11	CARBON	330	5%	1/4W	
R605	1-249-429-11	CARBON	10K	5%	1/4W	

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Ref.No	Part No.	Description			
R606	1-249-405-11	CARBON	100	5%	1/4W
R607	1-249-434-11	CARBON	27K	5%	1/4W
R608	1-249-429-11	CARBON	10K	5%	1/4W
R609	1-249-414-11	CARBON	560	5%	1/4W
R701	1-247-804-11	CARBON	75	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-415-11	CARBON	680	5%	1/4W
R704	1-249-441-11	CARBON	100K	5%	1/4W
R705	1-249-415-11	CARBON	680	5%	1/4W
R707	1-249-405-11	CARBON	100	5%	1/4W
R708	1-249-425-11	CARBON	4.7K	5%	1/4W
R709	1-249-426-11	CARBON	5.6K	5%	1/4W
R710	1-249-422-11	CARBON	2.7K	5%	1/4W
R711	1-249-425-11	CARBON	4.7K	5%	1/4W
R712	1-249-420-11	CARBON	1.8K	5%	1/4W
R713	1-249-417-11	CARBON	1K	5%	1/4W
R714	1-249-431-11	CARBON	15K	5%	1/4W
R715	1-249-417-11	CARBON	1K	5%	1/4W
R716	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-249-441-11	CARBON	100K	5%	1/4W
R719	1-247-903-00	CARBON	1M	5%	1/4W
R720	1-249-435-11	CARBON	33K	5%	1/4W
R721	1-249-441-11	CARBON	100K	5%	1/4W
R722	1-249-441-11	CARBON	100K	5%	1/4W
R723	1-247-903-00	CARBON	1M	5%	1/4W
RVB301	1-238-533-11	RES, VAR, SLIDE 50KX6 (100Hz, 400Hz, 1KHz 4KHz, 10KHz, VOLUME)			
S1	1-571-443-11	SWITCH, SLIDE (SENS)			
S301	1-571-472-11	SWITCH, SLIDE (REC/PB)			
S302	1-571-547-11	SWITCH, SLIDE (FUNCTION)			
S303	1-554-222-00	SWITCH, SLIDE (FM MODE/ISS)			
S352	1-572-006-11	SWITCH, PUSH (1 KEY)(TIMER)			
S401	1-570-943-11	SWITCH, SLIDE (HEAD SELECT)			
S601	1-570-441-11	SWITCH, LEAF (POWER)			
S602	1-570-012-11	SWITCH, LEAF (FF/REW)			
S603	1-552-864-00	SWITCH, LEAF (REV)			
S604	1-571-832-11	SWITCH, PUSH (1 KEY)(DIR MODE)			
S701	1-571-530-11	SWITCH, KEY BOARD (CLOCK)			
S702	1-571-530-11	SWITCH, KEY BOARD (TIMER)			
S703	1-571-530-11	SWITCH, KEY BOARD (SLEEP)			
S704	1-571-530-11	SWITCH, KEY BOARD (STANDBY)			
S705	1-571-530-11	SWITCH, KEY BOARD (SCAN/TIMER SET −)			
S706	1-571-530-11	SWITCH, KEY BOARD (SCAN/TIMER SET +)			
S707	1-571-530-11	SWITCH, KEY BOARD (MEMORY)			
S708	1-571-530-11	SWITCH, KEY BOARD (FM)			
S709	1-571-530-11	SWITCH, KEY BOARD (SW)			
S710	1-571-530-11	SWITCH, KEY BOARD (MW)			
S711	1-571-530-11	SWITCH, KEY BOARD (LW)			
S712	1-571-530-11	SWITCH, KEY BOARD (1)			
S714	1-571-530-11	SWITCH, KEY BOARD (2)			
S716	1-571-530-11	SWITCH, KEY BOARD (3)			
S718	1-571-530-11	SWITCH, KEY BOARD (4)			
S720	1-571-530-11	SWITCH, KEY BOARD (5)			
SP901	1-503-492-11	SPEAKER			
SP902	1-503-492-11	SPEAKER			
T1	1-404-455-00	TRANSFORMER, IF			
T2	1-404-797-11	TRANSFORMER, IF			
T3	1-404-811-11	TRANSFORMER, IF			
T81	1-449-385-11	TRANSFORMER, DC-DC CONVERTER			
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR			
T801 ⚠	1-448-761-21	TRANSFORMER, POWER (10.25MHz)			
X1	1-567-896-11	VIBRATOR, CRYSTAL			
X701	1-567-769-11	VIBRATOR, CRYSTAL			

Ref.No	Part No.	Description
		ACCESSORIES & PACKING MATERIALS
		**********
⚠	1-555-234-00	CORD, POWER
*	3-351-378-01	CUSHION (LEFT) (RIGHT)
*	3-352-379-01	INDIVIDUAL CARTON
	3-750-820-11	(AEP EXCEPT WG, IT)....MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
	3-750-820-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

9-953-955-11

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